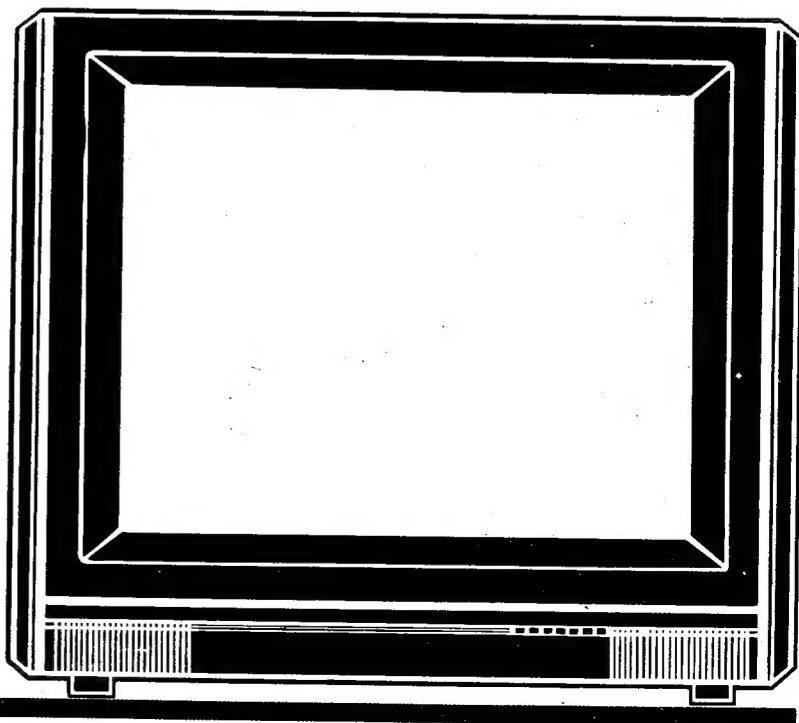


PROTON SERVICE VT-296 MANUAL

**27" VIDEO
MONITOR/RECEIVER**



CONTENTS

FEARURES.....	1
SPECIFICATIONS	2
ADJUSTMENTS.....	3-12
BLACK DIAGRAM.....	13
CIRCUIT DIAGRAM.....	14-17
PCB PARTS LOCATIONS (TOP VIEW)	18-25
PCB PARTS LOCATIONS (BOTTOM VIEW)	19-26
ELECTRICAL PARTS LIST.....	27-41
MECHANICAL PARTS LIST.....	42
ASSEMBLY DIAGRAM.....	43

FEATURES

1. 27 inch high resolution, flat square picture tube.
2. Built-in MTS stereo and SAP decoder.
3. 181 channel cable compatible tuner.
4. Video Noise Reduction system, reduces high frequency background noise.
5. 2 switchable RF inputs plus 3 sets of audio/video inputs and outputs.
6. Full function wireless remote control (V-202R).
7. Last channel recall and memory.
8. Full function ON SCREEN display and SHUT-OFF TIMER preset display.
9. Auto or manual fine tuning.
10. 3.58MHz (chroma beat) trap switch.
11. Built-in stereo speakers and Variable/Fix line-level audio outputs.
12. Direct access and preset tuning modes.
13. Continuously adjustable control for Black-Level, Picture, Color, Tint, Detail, Bass, Treble and Balance.
14. Auto Contrast Limit (ACL).
15. RGB 9 pin computer input.
16. Beam-Scan Velocity modulation (B.V.M.) system.
17. Auto shut-off when NO RF signal for 5 minutes.
18. Auto shut-off sleep function.
19. All channel are memorized forever.
20. With S-input.

SPECIFICATIONS

1. Color system: NTSC
2. Picture tube: A68JSA60X04(T)
3. Tuning range (181 channels): VHF 2-13 UHF 14-69
4. CATV Channel 1-125: Midband A-5-A-1
Superrband J-W
Hyperband AA-WW; AAA-FFF; EEE-W + 82
5. Manual fine tuning range: + -2.2MHz
6. AGC range: $\geq 80\text{dB}$ (typically 90dB)
7. Audio frequency response: 20Hz-20kHz + -3dB
8. Internal amplifier power: 3 Watts/channel, 32 OHM
9. Inputs
RF: VHF/UHF (ANT/AUX) 75 OHM F-type.
RGB (9 pin EIA TTL level): RGB + Intensity + H/V SYNC (polarity selectable).
Video 1.2.3.: 1.0Vp-p composite video 75 OHM (RCA JACK).
Audio 1.2.3.: 400mVrms 47K OHM (L/R RCA JACK).
10. Outputs
Video 1.2.3.: 1.0Vp-p composite video 75 OHM (RCA JACK).
Audio (TV): 400mVrms (L/R RCA JACK).
Audio (FIX): 400mVrms (L/R RCA JACK).
Audio (VARIABLE): 0-800mVrms (L/R RCA JACK).
11. Overscan: Typically 5%
12. Black level retention: 95%
13. Luminance: $\geq 200 \text{ cd/m}^2$ (typically 230 cd/m^2)
14. Color temperature: 6500° K
15. Geometric distortion: $\leq 2.5\%$ (typically 0.7%)
16. Horizontal resolution: 4.7MHz/550 lines
17. Power requirements: 120Vac/60Hz, 160 Watts
18. Remote control distance: 7 meter + -15 degree Horizontal or Vertical.
19. Remote control transmitter supply: DC 3V battery (UM-4)x2
20. Dimensions (WxHxD): 698mmx616mmx480mm (27.4"x24.3"x18.9")
21. Shipping weight: 52.2kg (115 Lbs)
22. Net weight: 47.2kg (104 Lbs)

ADJUSTMENTS

NOTE: 1. Warm up the set for about 10 minutes before making adjustment.
2. Set TV mode unused channel or disconnect external antenna from it.

(1) VIDEO IF ADJUSTMENT

A) PREPARATION

1. Set TV power switch at "OFF" position.
2. Apply MGC voltage (0-7V) to IC101 pin6 and ground.
3. Connect 10uF capacitor to IC101 pin25 and ground.
4. Connect 0.39uF capacitor to Q102 Emitter and ground.
5. Connect swemar generator "output" lead to tuner TP through matching pad as shown in figure 2.
6. AFT "OFF" (Break AFT test point).

B) DETECTOR ADJUSTMENT

1. Connect swemar generator "from TP" lead to Q102 Emitter.
2. Set the output attenuators of swemar generator at 30dB.
3. Turn on the TV power switch and external MGC power supply.
4. Adjust the MGC voltage to maintain 1Vp-p pattern on the scope.
5. Adjust VCO coil (L108) overlap with BEAT and 45.75MHz marker as shown in figure 3.

C) COMPOSITE WAVEFORM ADJUSTMENT

1. Adjust tuner IFT to obtain P(45.75MHz) and 41.67MHz markers at same level dropped 6dB from peak point as shown in figure 3.
2. Take OFF swemar generator "from TP" lead and capacitors.

(2) AFT ADJUSTMENT

A) PREPARATION (SAME AS VIF ADJUSTMENT PROCEDURE).

B) AFT ADJUSTMENT

1. Connect swemar generator "from TP" output lead to IC101 pin16.
2. Adjust properly MGC voltage and attenuator of swemar as shown in figure 4.
3. Adjust AFT coil (L107) to place 45.75MHz marker at center of curve.
4. Finally turn off power supply and take off swemar lead.
5. Recover AFT test point.

(3) SOUND IF ADJUSTMENT

1. Connect FM-AM signal generator output to p15 (CF101).
2. Set the FM-AM signal generator at INT-FM 1kHz 30% MOD.
3. Connect DVM to audio output (C120 negative polarity).
4. Adjust L109 to read the voltage maximum.
5. Take off DVM and swemar lead.

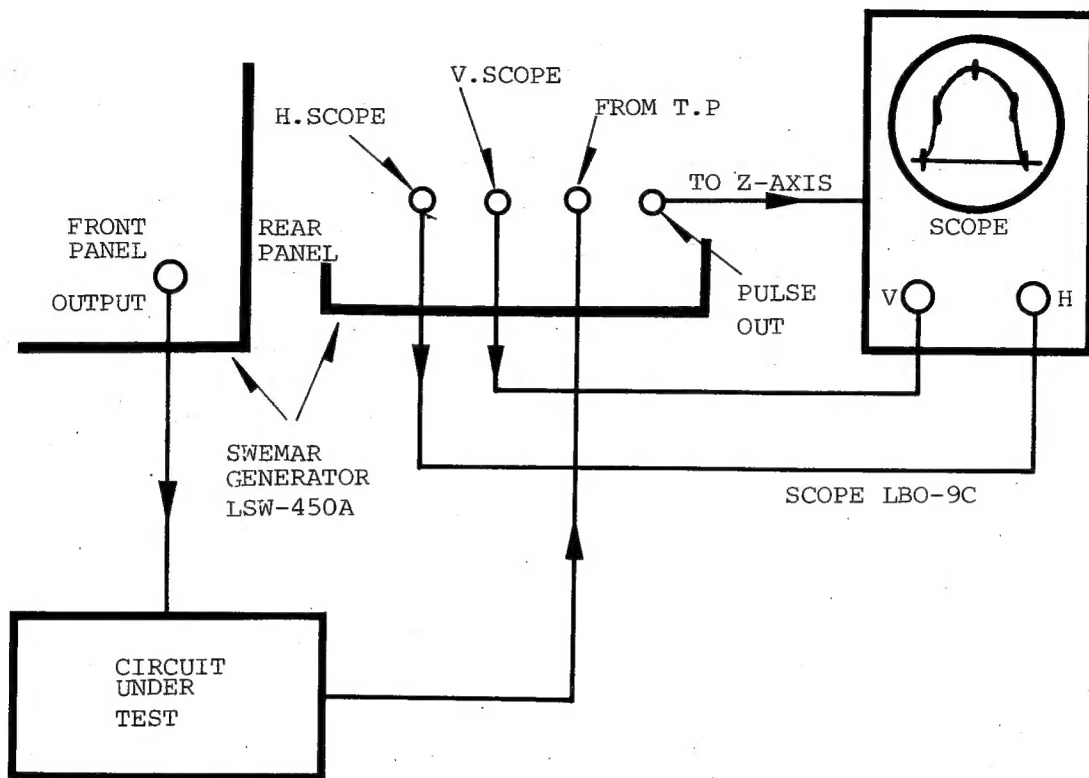


FIG. 1 VIF ADJUSTMENT CONNECTION

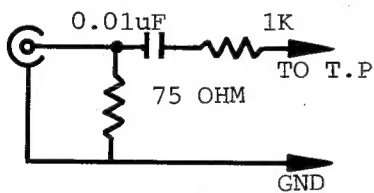


FIG. 2 MATCHING PAD

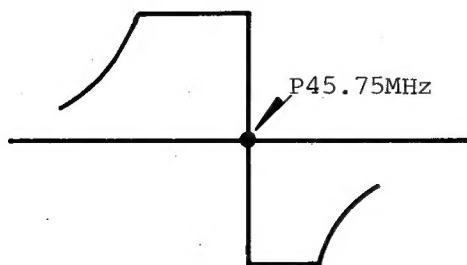


FIG. 4 AFT WAVEFORM

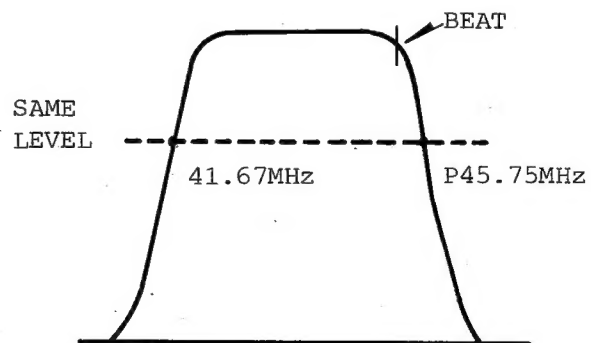


FIG. 3 OVERALL-VIF CURVE

(4) RF AGC ADJUSTMENT

1. Turn on TV power switch.
2. Connect TV signal through a 75 OHM attenuator to VT-296 VHF ANT input.
3. Tune VT-296 to proper channel.
4. Adjust the TV attenuator to obtain 56dB TV signal input to VT-296.
5. Adjust VR101 fully counter-clockwise to its end position.
6. Slightly adjust VR101 clockwise to the point that the snow just disappeared (to see directly).

(5) MPX INPUT LEVEL ADJUSTMENT

1. Receive 1kHz mono signal.
2. Connect DVM to SBx1475 pin16 then adjust VR703 to read the voltage is 270mVrms.
3. Take off DVM lead.

(6) AFC OSC ADJUSTMENT

1. Do not receive signal (in free run condition).
2. Connect Counter to TP1 then adjust VR701 to read the frequency is 15734Hz.
3. Take off counter lead.

(7) ON SCREEN ADJUSTMENT

1. Press the SELECT key let the Tint or Balance word appear in the SCREEN then adjust VR702 to make the Bar in the center of CRT.

(8) B+ VOLTAGE ADJUSTMENT

1. Receive COLOR BAR pattern signal.
2. Connect DVM between TP43 and TP44.
3. Set PICTURE, COLOR, BLACK-LEVEL so that the voltage indication is 1.2V.
4. Connect DVM to pin1 of S13 connector.
5. Adjust VR831 to read the B+ voltage is 108 + -0.5V.

(9) H-HOLD ADJUSTMENT

1. Receive COLOR BAR pattern signal.
2. Connect TP41 to ground.
3. Adjust VR422 let the picture stand.
4. Take off short lead (TP41 to ground).

(10) H-SIZE ADJUSTMENT

1. Receive CROSS-HATCH pattern signal.
2. Set TV COLOR, TINT, BLACK-LEVEL at center position, PICTURE, DETAIL at maximum position.
3. Adjust VR362 until the picture fills the SCREEN about 5.5% overscan.

(11) H-CENTER ADJUSTMENT

1. Receive CROSS-HATCH pattern signal.
2. Adjust VR421 until the picture at center position.

(12) H-PINCUSHION ADJUSTMENT

1. Receive CROSS-HATCH pattern signal.
2. Adjust VR381 and VR361 for the best lineary.

(13) V-SIZE ADJUSTMENT

1. Receive CROSS-HATCH pattern signal.
2. Adjust VR461 for about 6% overscan.

(14) V-CENTER ADJUSTMENT

1. Receive CROSS-HATCH pattern signal.
2. Adjust VR471 until the picture of screen at center position.

(15) COMB FILTER ADJSUSTMENT

1. Connect Video input with STAIRCASE pattern signal.
2. Connect scope probe to TP21 the waveform as shown in figure 5.
3. Adjust VR211 and L211 until the subcarrier on the step reduce to minimum.

(16) VNR ADJUSTMENT

1. Receive COLOR BAR pattern signal.
2. VNR SW ON.
3. Connect DVM to IC271 pin2 and pin5, then adjust VR271 to read the voltage is 5V at pin2 and 9V at pin5.
4. Take off DVM lead.

(17) SUB BRIGHT ADJUSTMENT

1. Connect video input with COLOR BAR pattern signal.
2. Set PICTURE at minimum and BLACK-LEVEL at center position.
3. Connect scope probe to TP55 (BLUE output).
4. Adjust VR291 to obtain the waveform 3Vp-p as shown in figure 6.

(18) APC ADJUSTMENT

1. Connctet video input with COLOR BAR pattern signal.
2. Connect TP24 and TP52.
3. Adjust VR522 let the COLOR BAR on the screen synchronized.
4. Take off short lead (TP24 to TP52).

(19) SUB TINT ADJUSTMENT

1. Connect video input with COLOR BAR pattern signal.
2. Turn off luminance of pattern generator.
3. Connect scope probe to TP55 (BLUE OUTPUT).
4. Set COLOR, TINT at center position.
5. Adjust VR521 to obtain WHITE, CYAN and PURPLE, COLOR waveform in line as shown in figure 7.

(20) SUB COLOR ADJUSTMENT

1. Connect video input with COLOR BAR pattern signal.
2. Set COLOR at minimum.
3. Adjust VR511 until the picture of screen just no color.

(21) RGB RASTER ADJUSTMENT

1. Receive RGB signal (IBM PC).
2. Adjust VR601 let the raster in the center of CRT.

(22) FOCUS ADJUSTMENT

1. Connect video input with CROSS-HATCH pattern signal.
2. Adjust FOCUS CONTROL VR for the best focus.

(23) CRT GRAY SCALE ADJUSTMENT (WHITE BALANCE)

1. Connect video input with RASTER pattern.
2. Warm up the set for 20 minute.
3. Set BLACK-LEVEL, PICTURE, DETAIL and SCREEN controls at **minimum**.
4. Set VR901 (B.bias) VR902 (G.bias) VR903 (R.bias) VR904 (B.drive) and VR905 (G.drive) at center position.
5. Turn SCREEN VR slowly to obtain a faintly visible RASTER picture note the color the first becomes visible.
Do not turn a bias controls for this color.
6. Adjust the other two bias controls for the best white balance (neutral gray) of the faint raster picture.
7. Turn PICTURE and BLACK-LEVEL controls at max, observe the screen and adjust the drive controls for the best white balance.

(24) PURITY AND CONVERGENCE ADJUSTMENT

NOTE: Before making adjustment, warm up the set for about 20 minutes by operating with white raster.

A) PURITY ADJUSTMENT

1. Demagnetize the CRT completely with a degaussing coil.
2. Make precise adjustment of focus and make rough adjustment of static convergence.
3. Make the raster green or magenta.
4. Move the DY forward until it touches funnel so that raster becomes about 7cm width vertical (see figure 8, 9).
5. Loosen purity/convergence magnet clamp and adjust the purity magnet so that the vertical stripe comes to center of the screen.
6. Slowly pull the DY backward until the green or magenta spreads over the whole screen.
7. Make sure that each of the green, red, blue and white spreads evenly over the whole screen and then fix the DY screw tightly.

B) CENTER CONVERGENCE ADJUSTMENT

1. Make CROSS-HATCH pattern on the screen.
2. Adjust two tabs of the 4-pole magnets to change the angle between them (see figure 10) and superimpose red and blue vertical lines in the center area of the screen (see figure 10).
3. Turn the both tabs at the same time keeping the constant angle to superimpose red and blue horizontal lines at the center of the screen (see figure 10 and 11).
4. Adjust two tabs of 6-pole magnets to superimpose red/blue lines and rotating both magnets affects the horizontal lines.

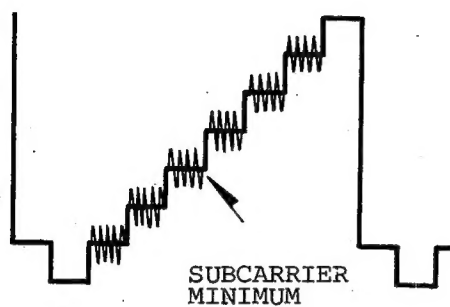


FIG. 5

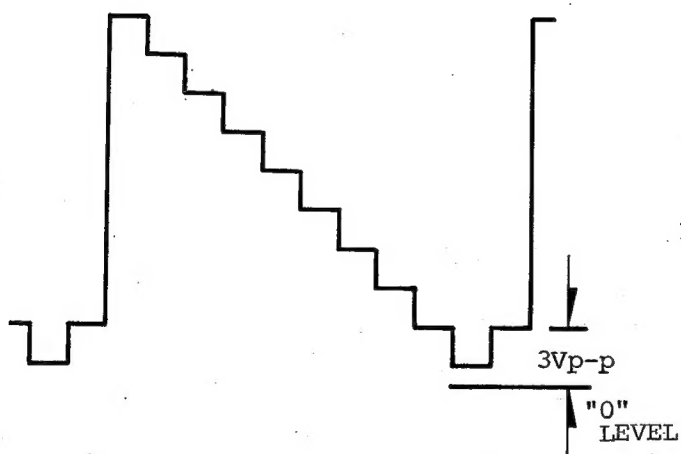


FIG. 6

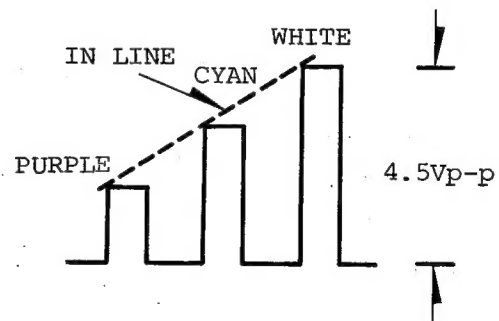


FIG. 7

C) CORNER CONVERGENCE ADJUSTMENT

1. Make CROSS-HATCH pattern on the screen.
2. Slightly tilt (don't rotate) the Dy horizontally.
3. Fix the Dy by inserting rubber wedges (see figure 12).
4. Glue the wedges with adhesive and adhesive glass cloth tape (see figure 12).
5. In order to prevent the movement of Dy and magnets, fix them again by screwing tightly.

(25) HIGH VOLTAGE CHECK

1. Connect an accurate high voltage meter or a high impedance voltmeter with a high voltage over 40KV rating probe between the CRT anode and ground.
2. Connect the voltmeter (+) to TP44 (-) to TP43.
3. Apply 120VAC to TV set.
4. Connect VIDEO input with COLOR bar pattern.
5. Warm up the set for 15 minutes and adjust the BLACK LEVEL PICTURE and COLOR control key to set the potential between TP44 (+) and TP43 (-) at 1.2 volt (It means beam current of 1200uA).
6. The high voltage measured must be 28KV \pm 0.5KV.

(26) HIGH VOLTAGE HOLD-DOWN CIRCUIT ADJUSTMENT WARNING

The high voltage hold-down circuit is used to malfunction the horizontal oscillation circuit and cut off high voltage, if the HV reaches between 30.5KV at 1200uA beam current. (including CRT beam current and focus current). Serviceman should check if the hold-down circuit is in the specified voltage range; as follows:

Hold-Down Circuit Adjustment Steps:

1. Connect video input with COLOR BAR pattern.
2. Connect high voltage probe at anode of CRT.
3. Connect positive bar of voltmeter at TP44 and negative bar at TP43.
4. Apply 120Vac to the set using an auto-transformer then on the power switch.
5. Allow for warm up and set up all customer functional controls gradually to make sure of the potential between TP44 (+) and TP43 (-) keeping at 1.2 volt (it means a beam current of 1200uA).
6. Connect 25K OHM resistor to TP45 and TP46, the hold-down circuit should be triggered on.
7. If step 6 not hold-down, reject this set and repair.

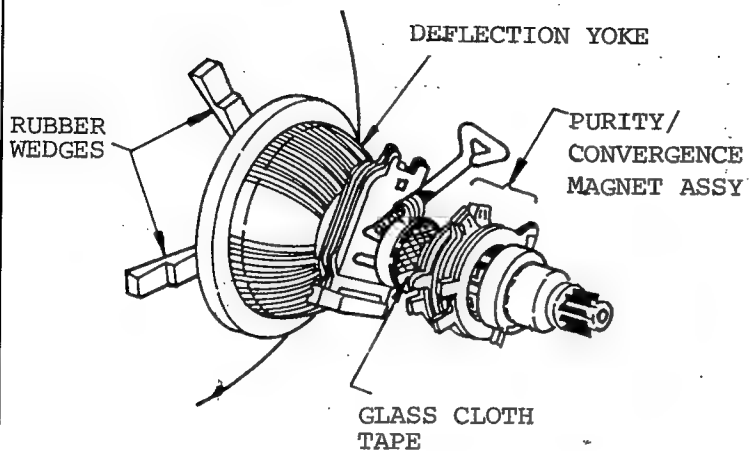
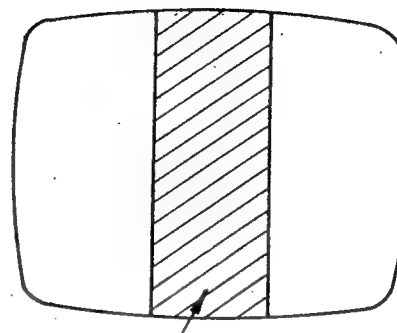


FIG. 8



GREEN OR MAGENTA

FIG. 9

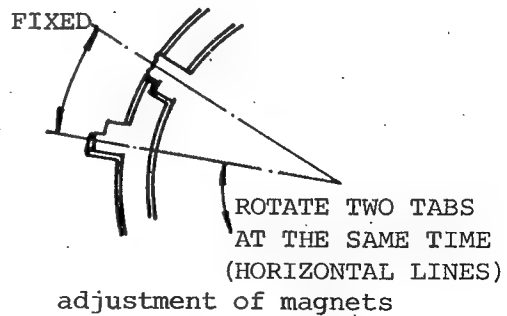
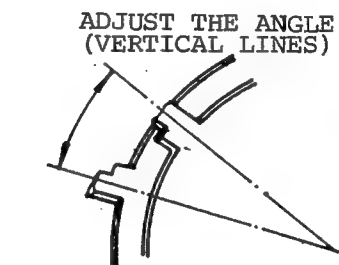
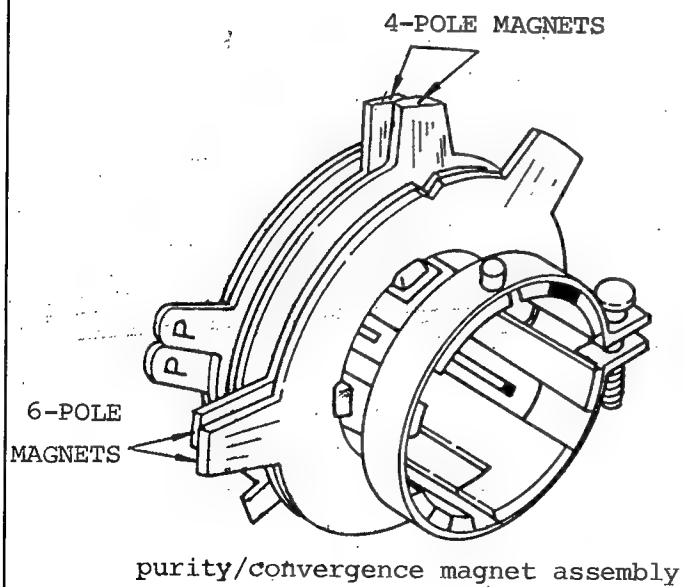
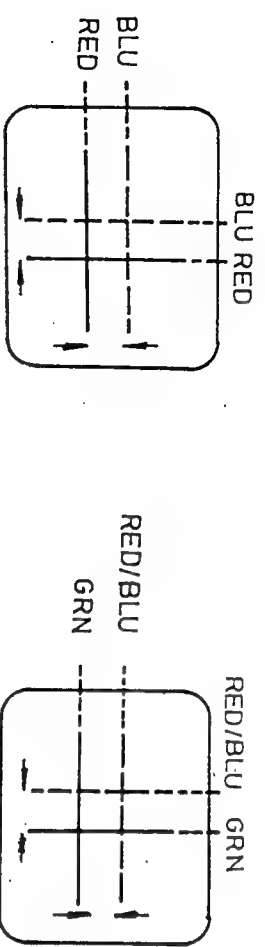


FIG. 10



4-POLE MAGNETS MOVEMENT

6-POLE MAGNETS MOVEMENT

Center Convergence by Convergence Magnets



INCLINE THE YOKE RIGHT (OR LEFT)

INCLINE THE YOKE UP (OR DOWN)

Corner Convergence by DEF. Yoke

FIG. 11

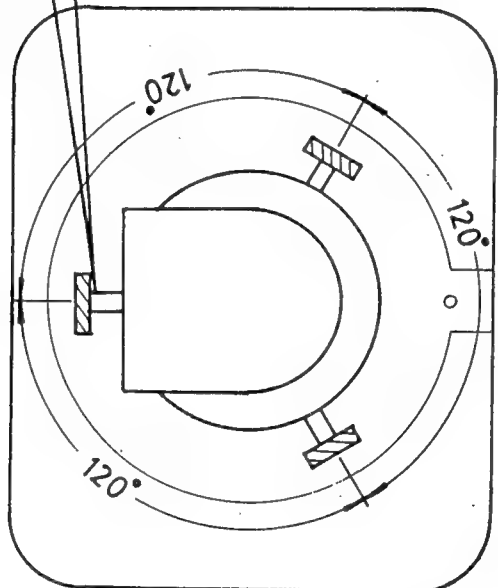
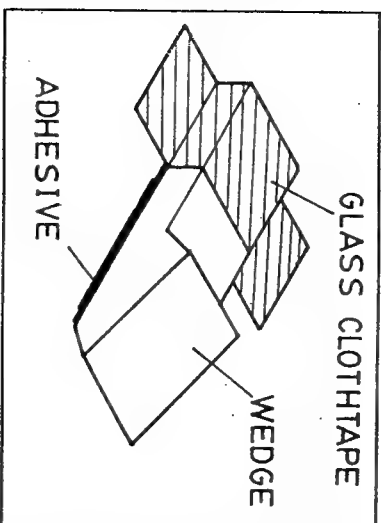
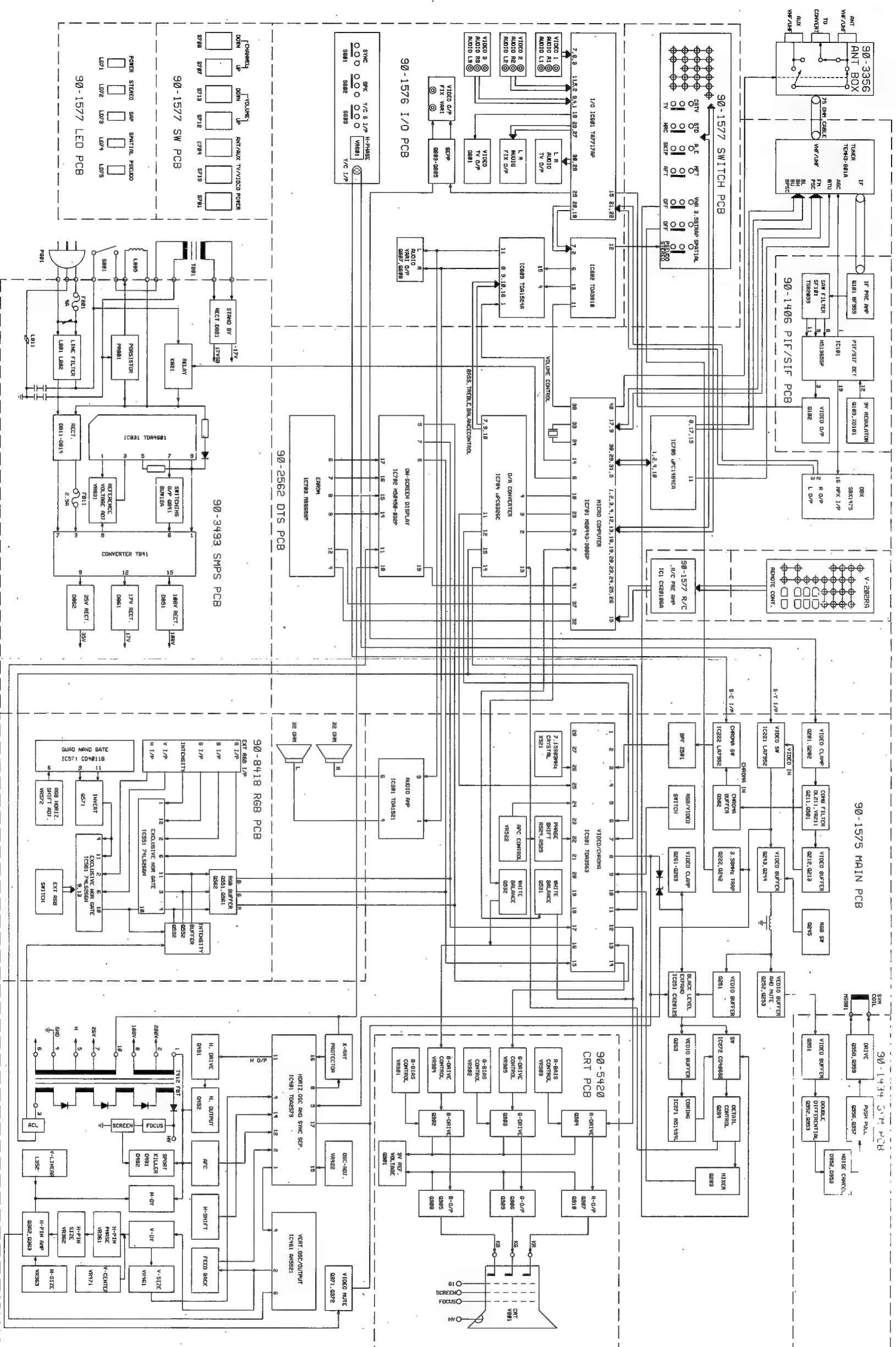
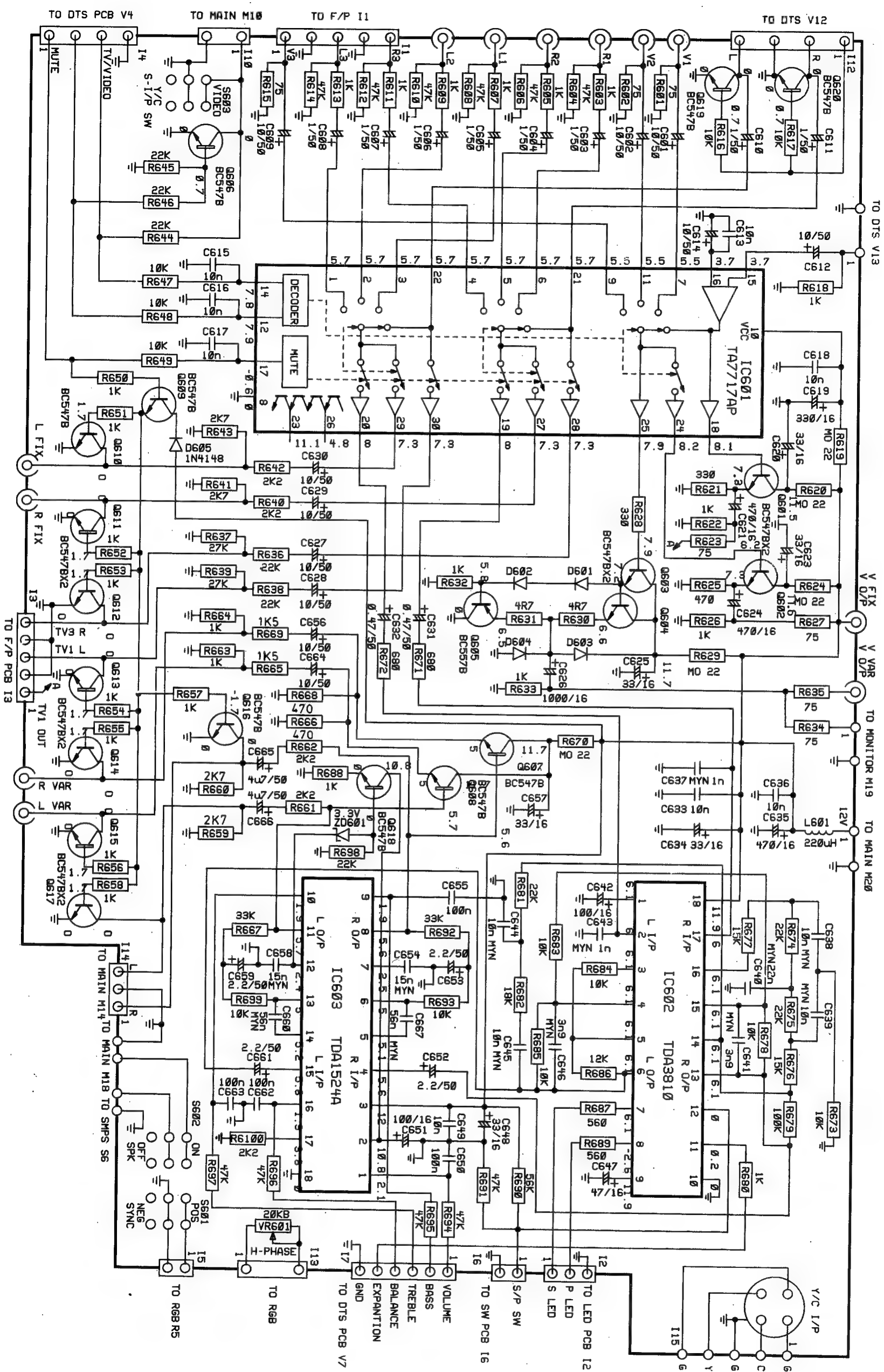


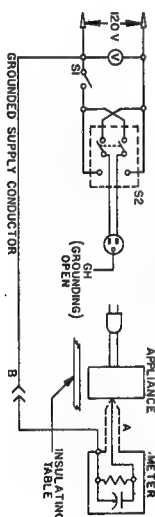
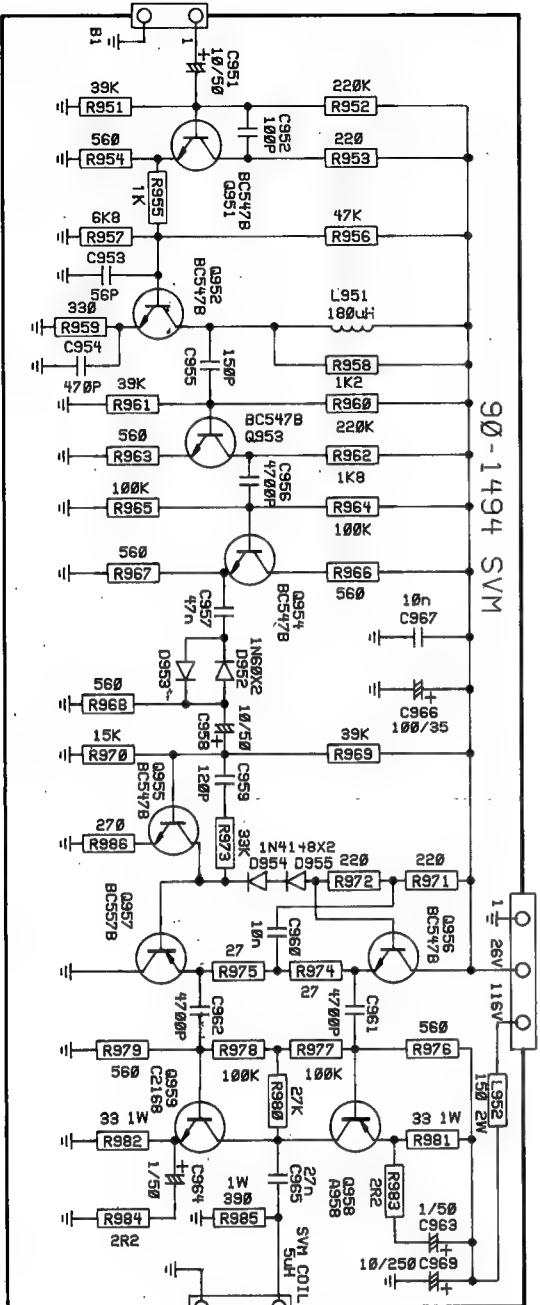
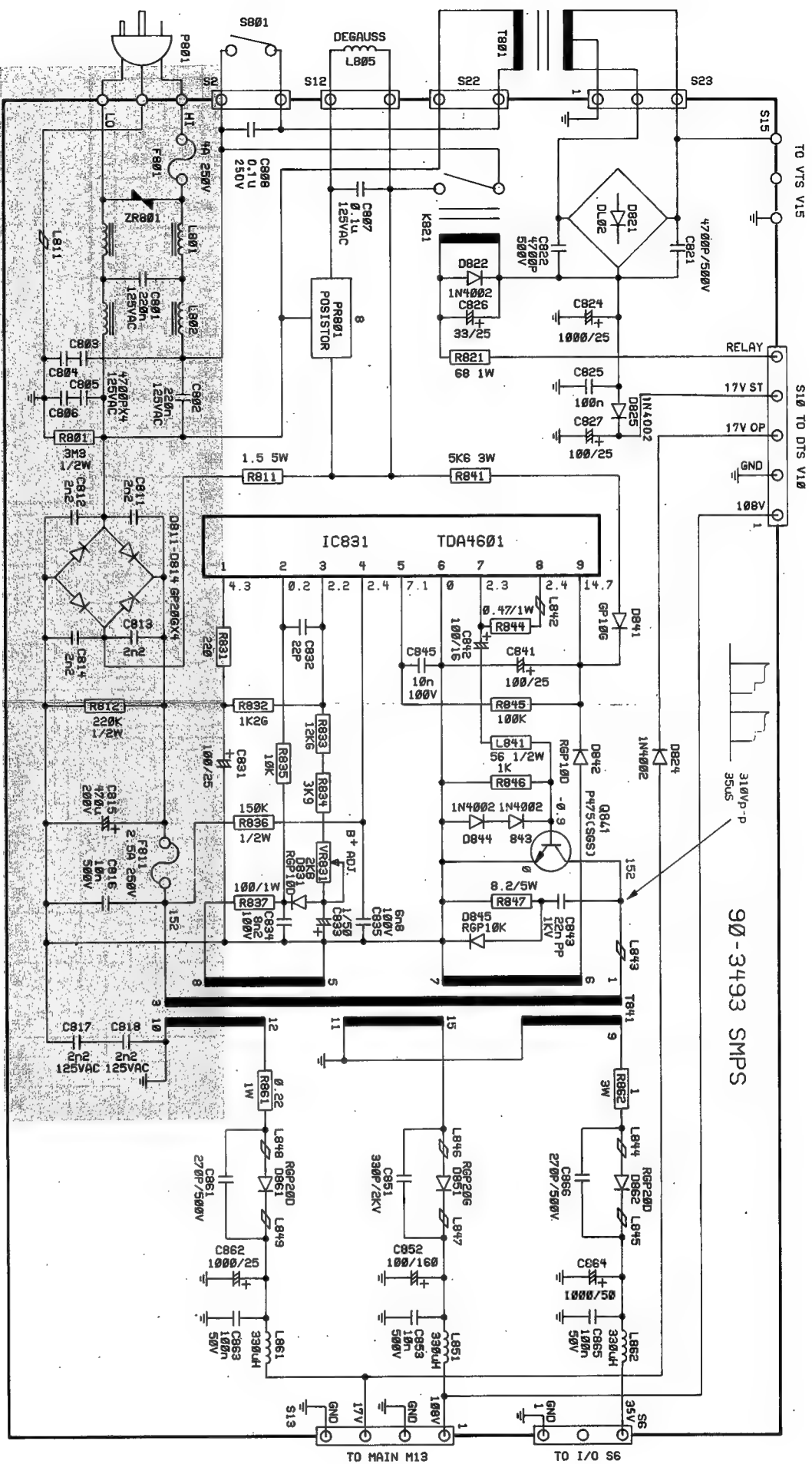
FIG. 12

BLOCK DIAGRAM

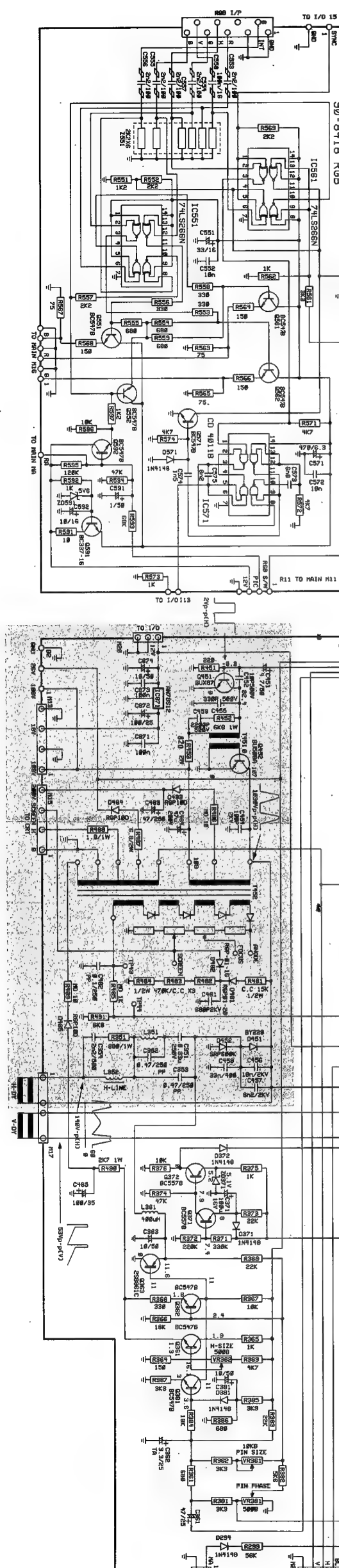
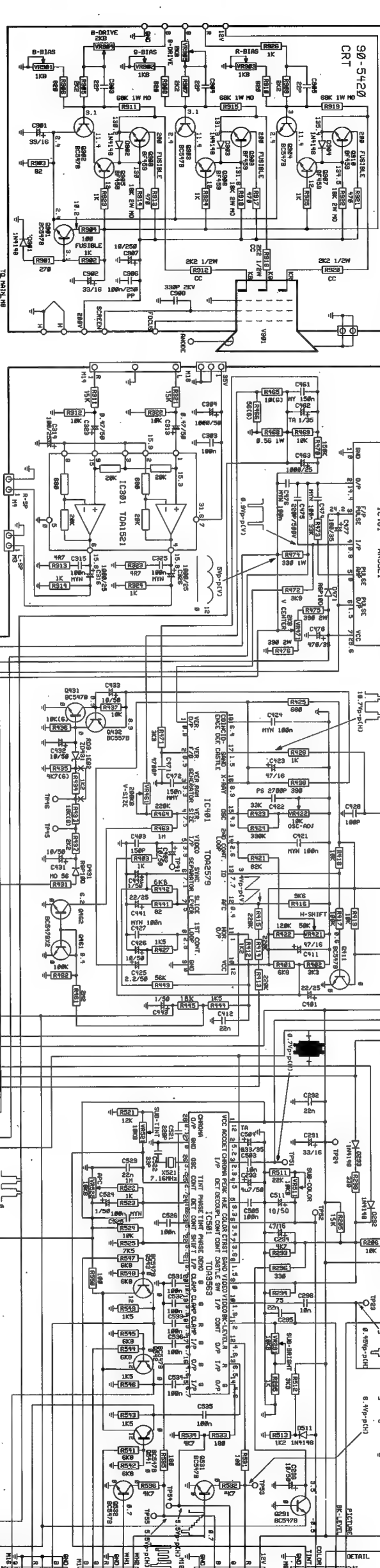
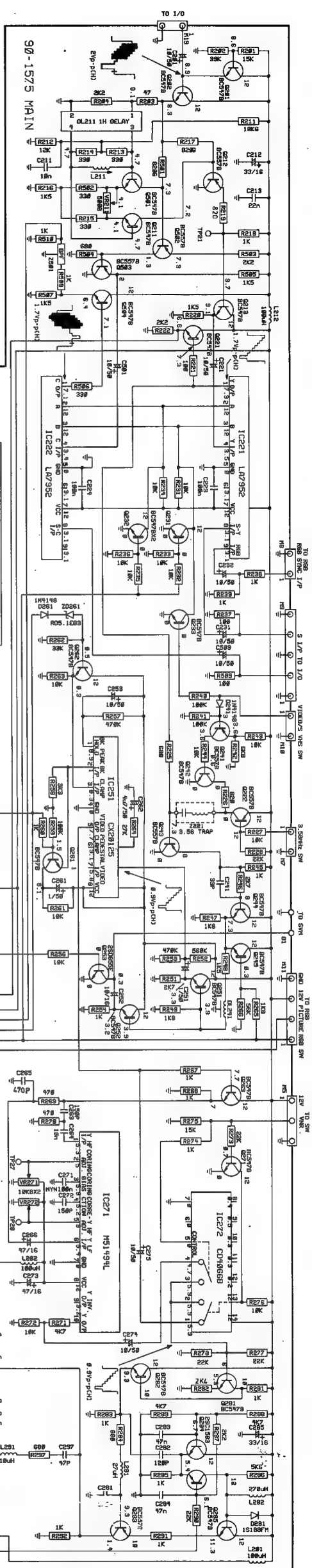


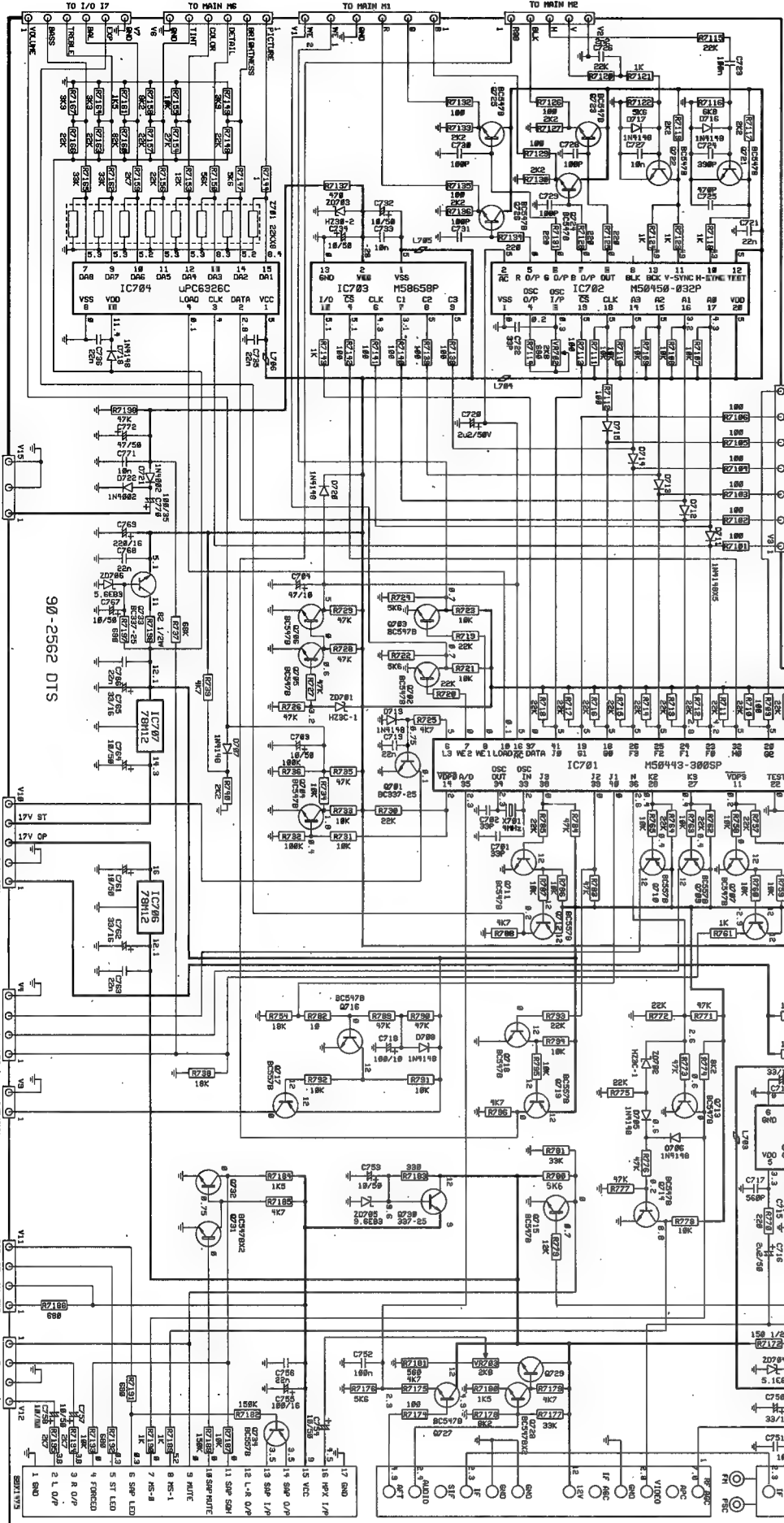
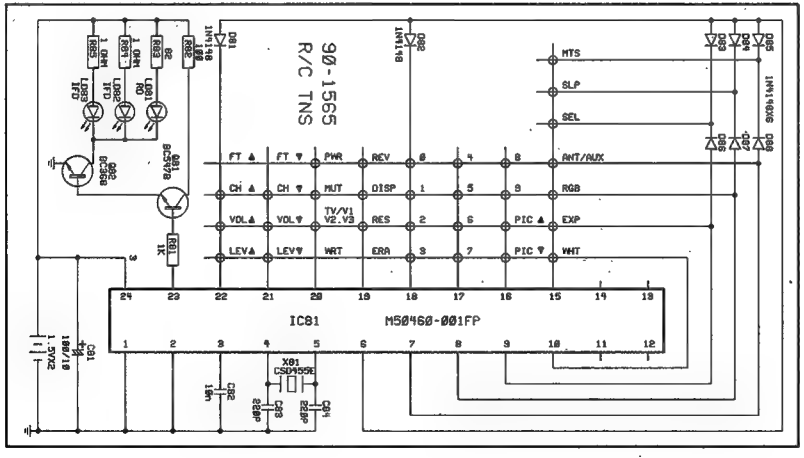
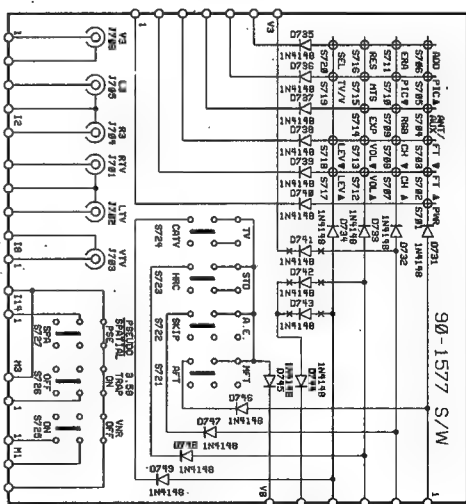
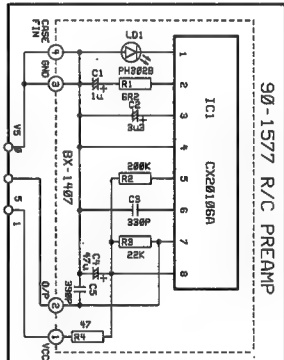
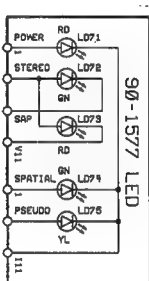
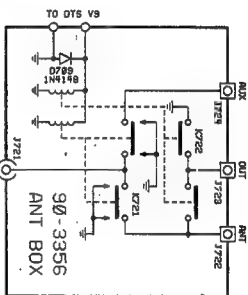
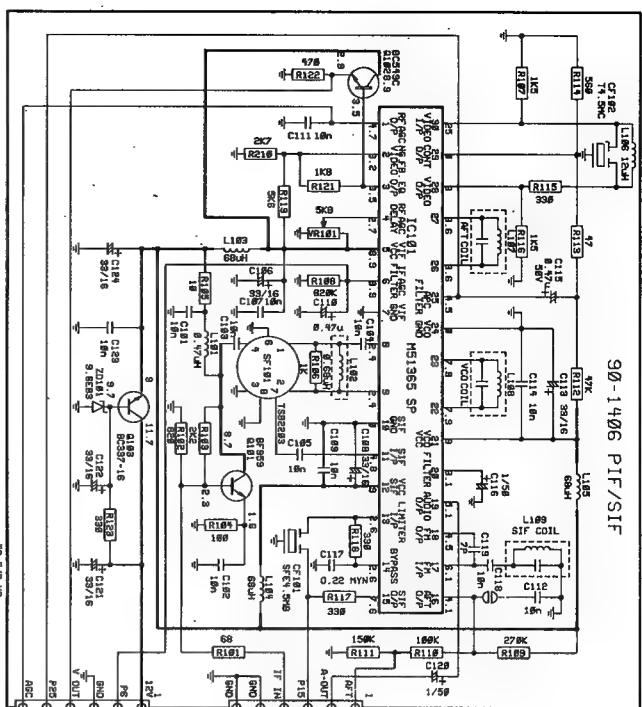
CIRCUIT DIAGRAM



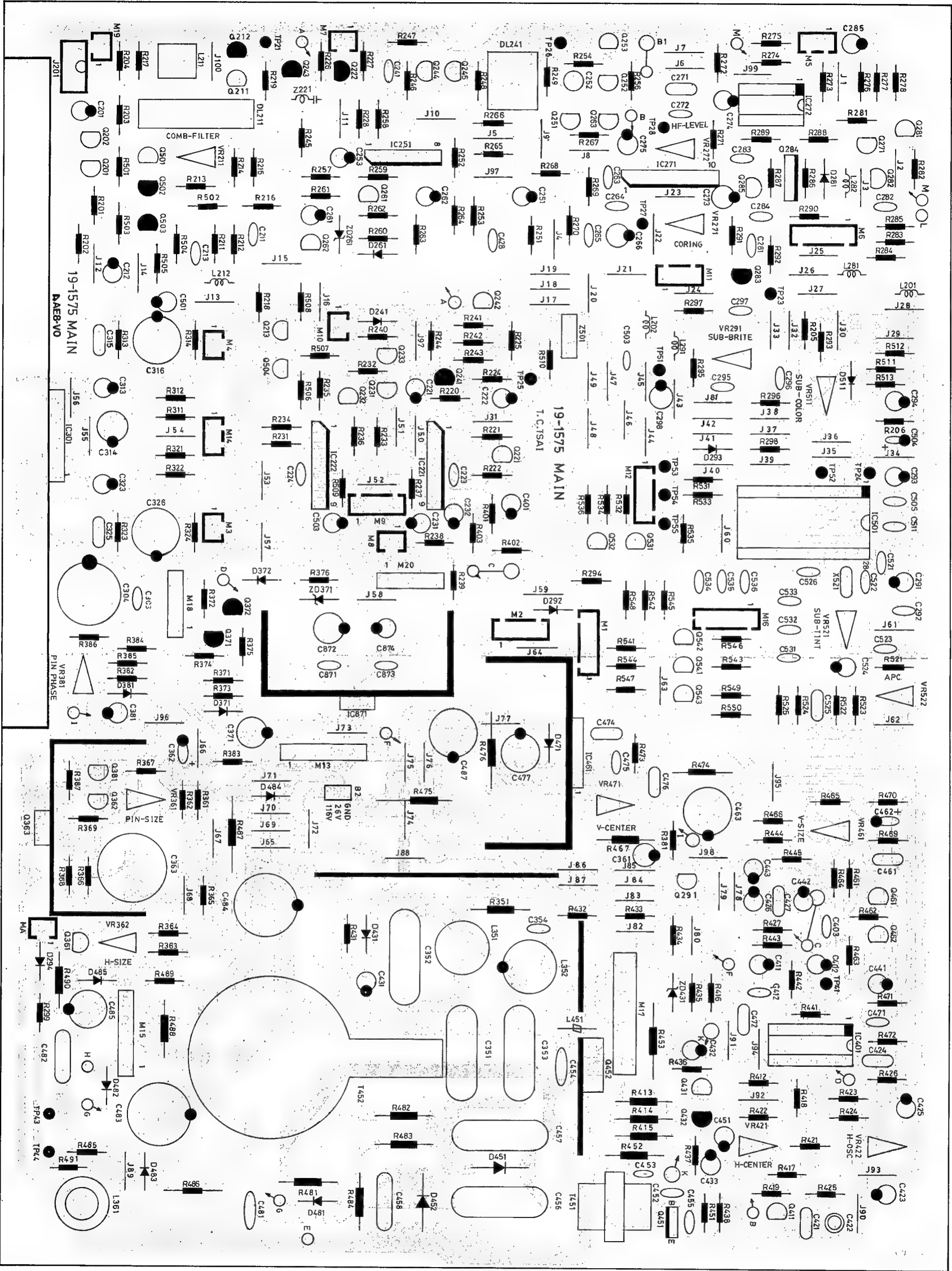


REVIEW INFORMATION
CAUTION: These circuit components that are ahead of the
schematic diagram are used to prevent electric
shock and fire hazard. All these special components
must be replaced by the same type and value
to those in the schematic diagram. Type identical
CAUTION: Make leakage current measurement before returning
the appliance to the customer. See instruction
manual for more details.

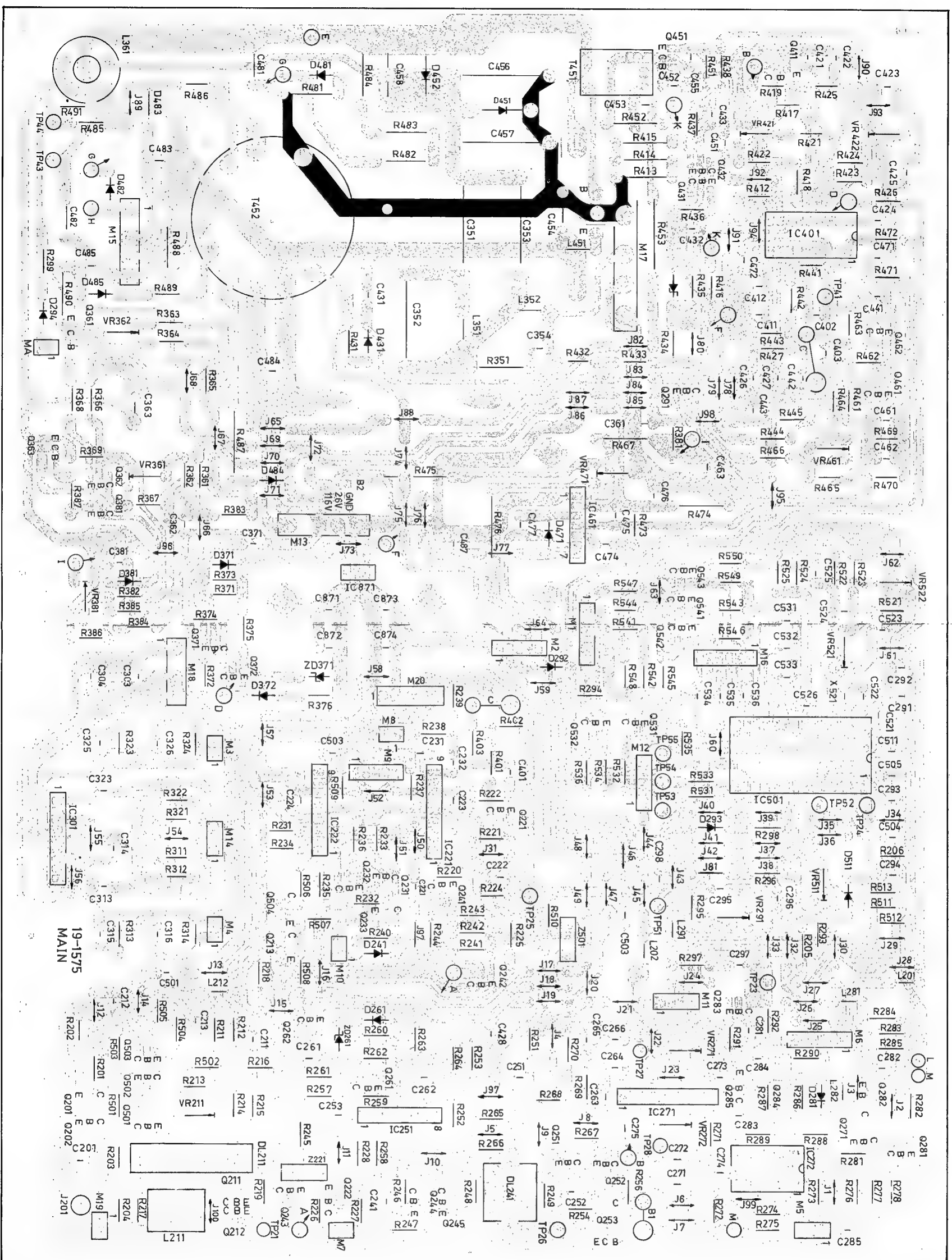




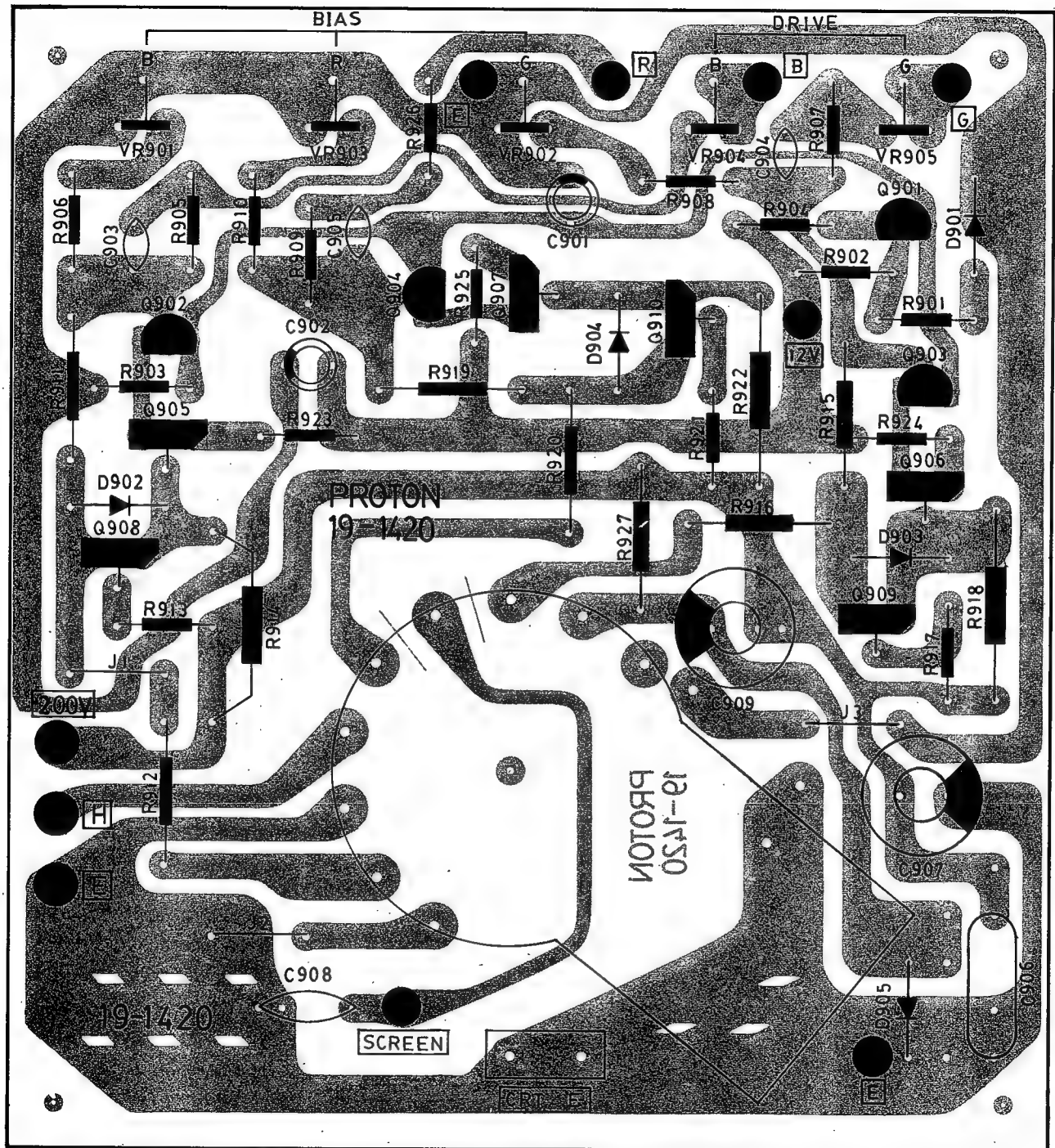
PCB PARTS LOCATIONS (TOP VIEW)



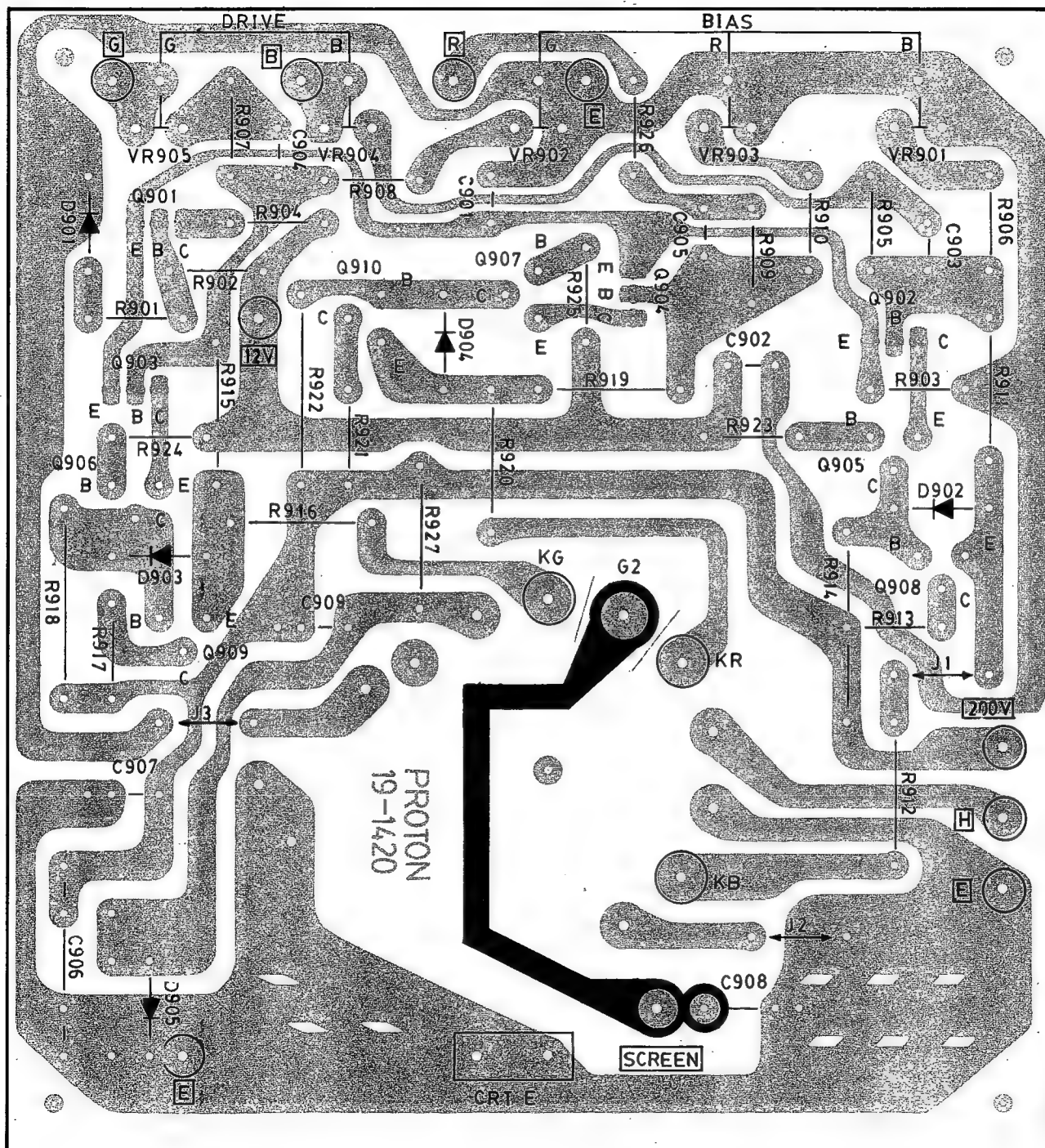
PCB PARTS LOCATIONS (BOTTOM VIEW)



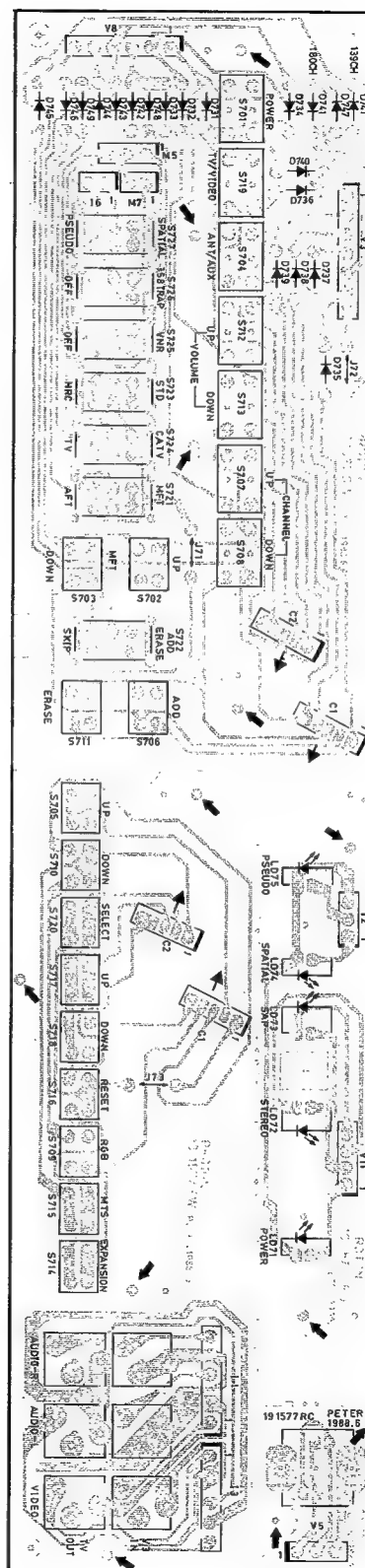
PCB PARTS LOCATIONS (TOP VIEW)



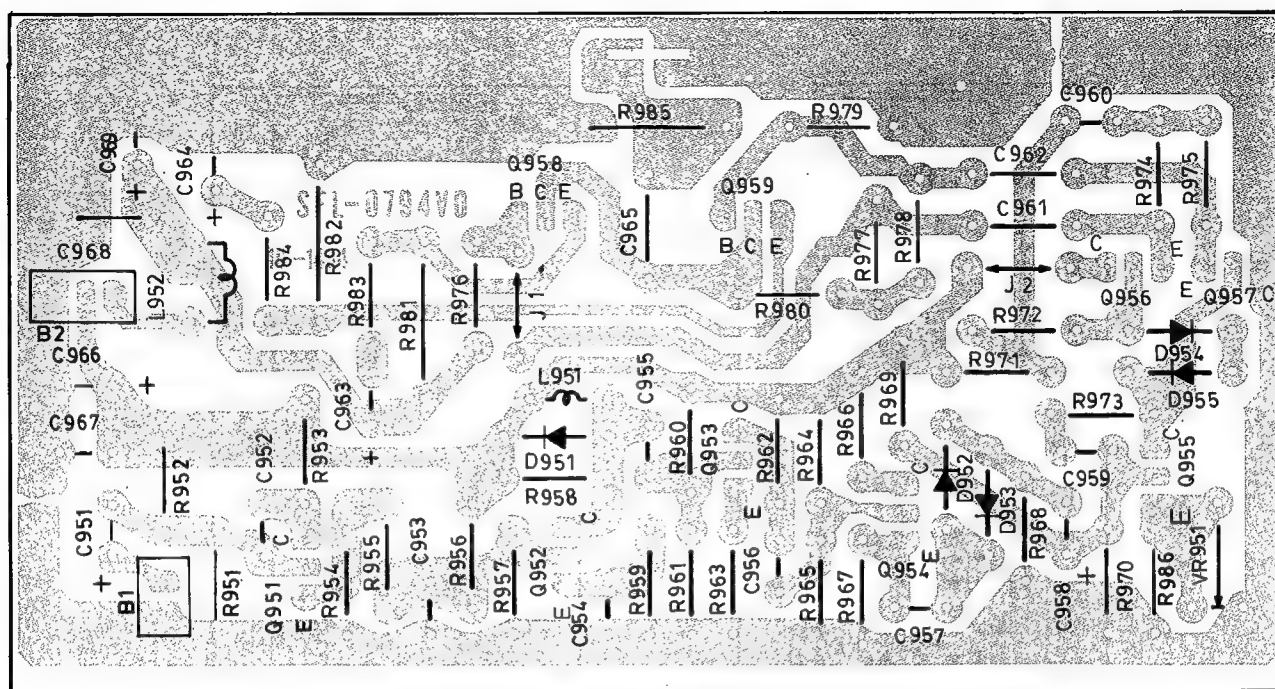
PCB PARTS LOCATIONS (BOTTOM VIEW)



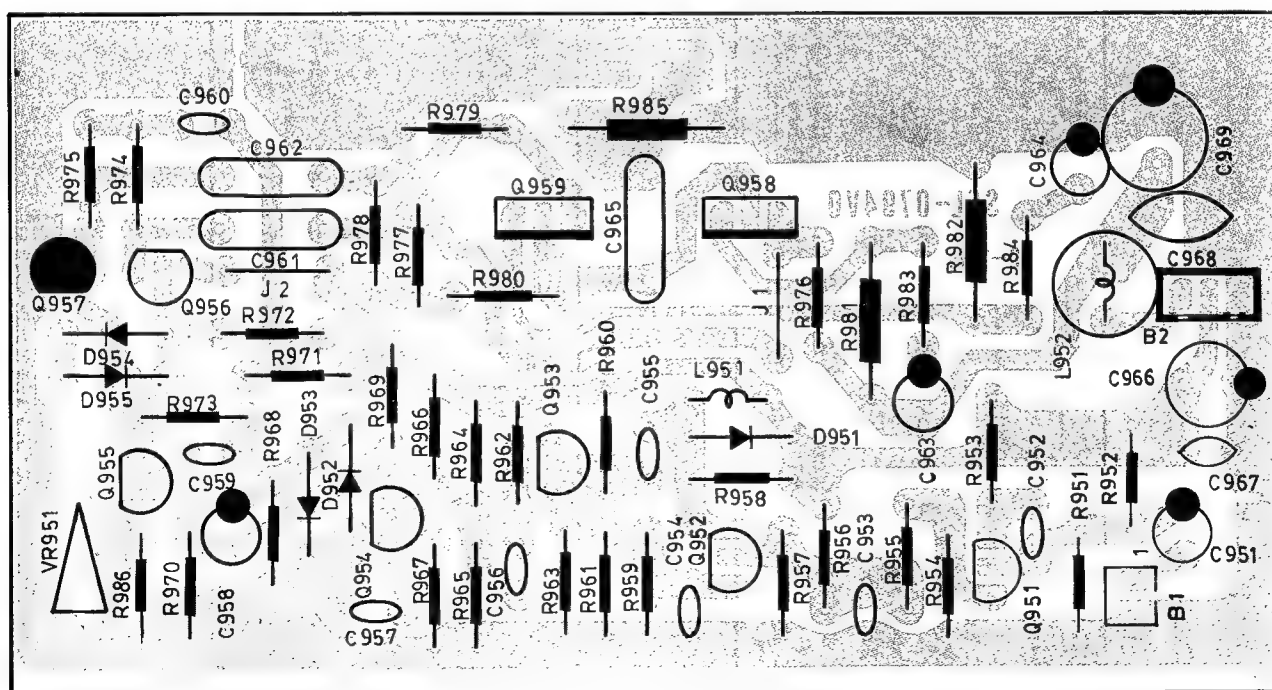
(BOTTOM VIEW)



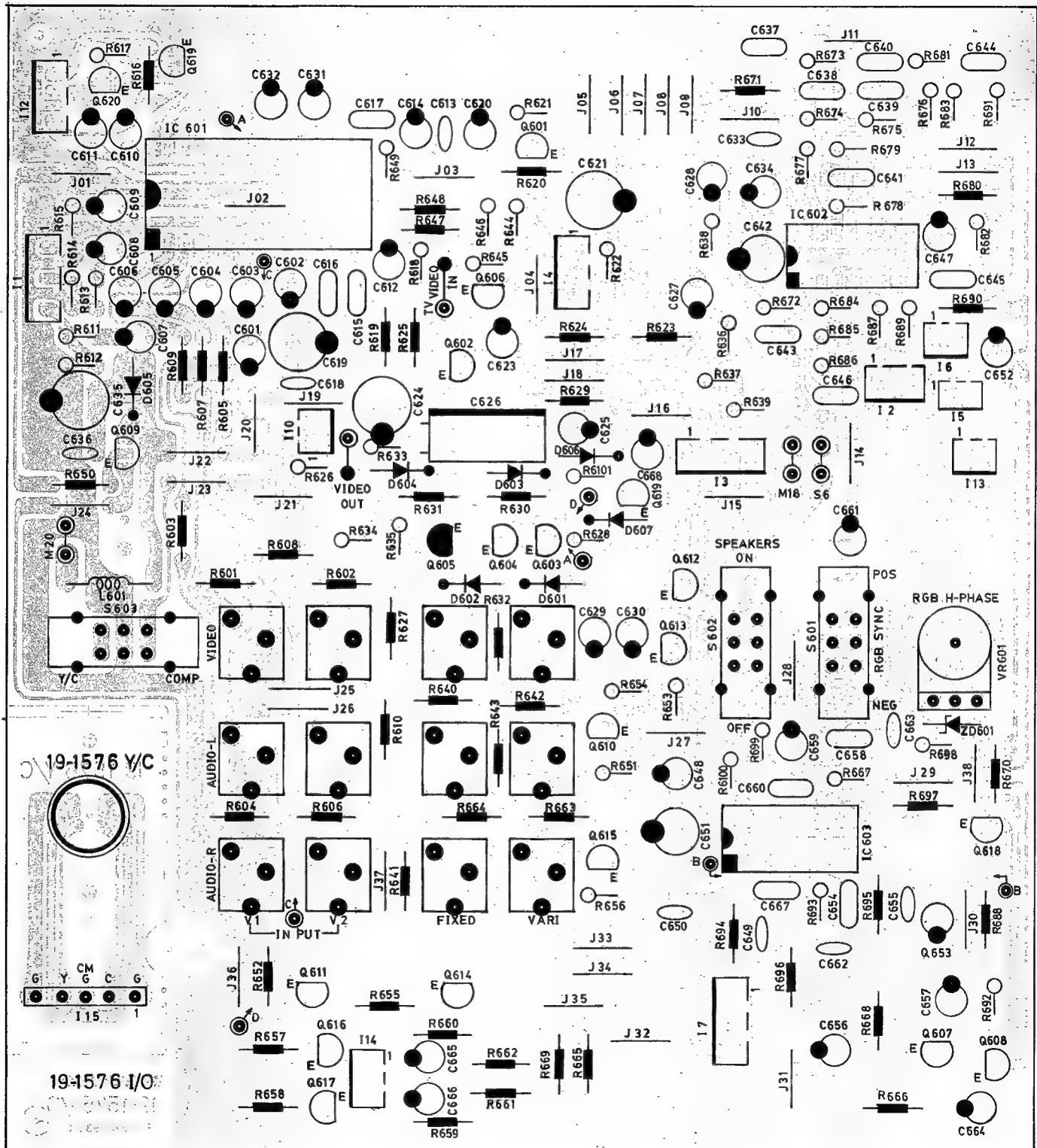
PCB PARTS LOCATIONS (BOTTOM VIEW)



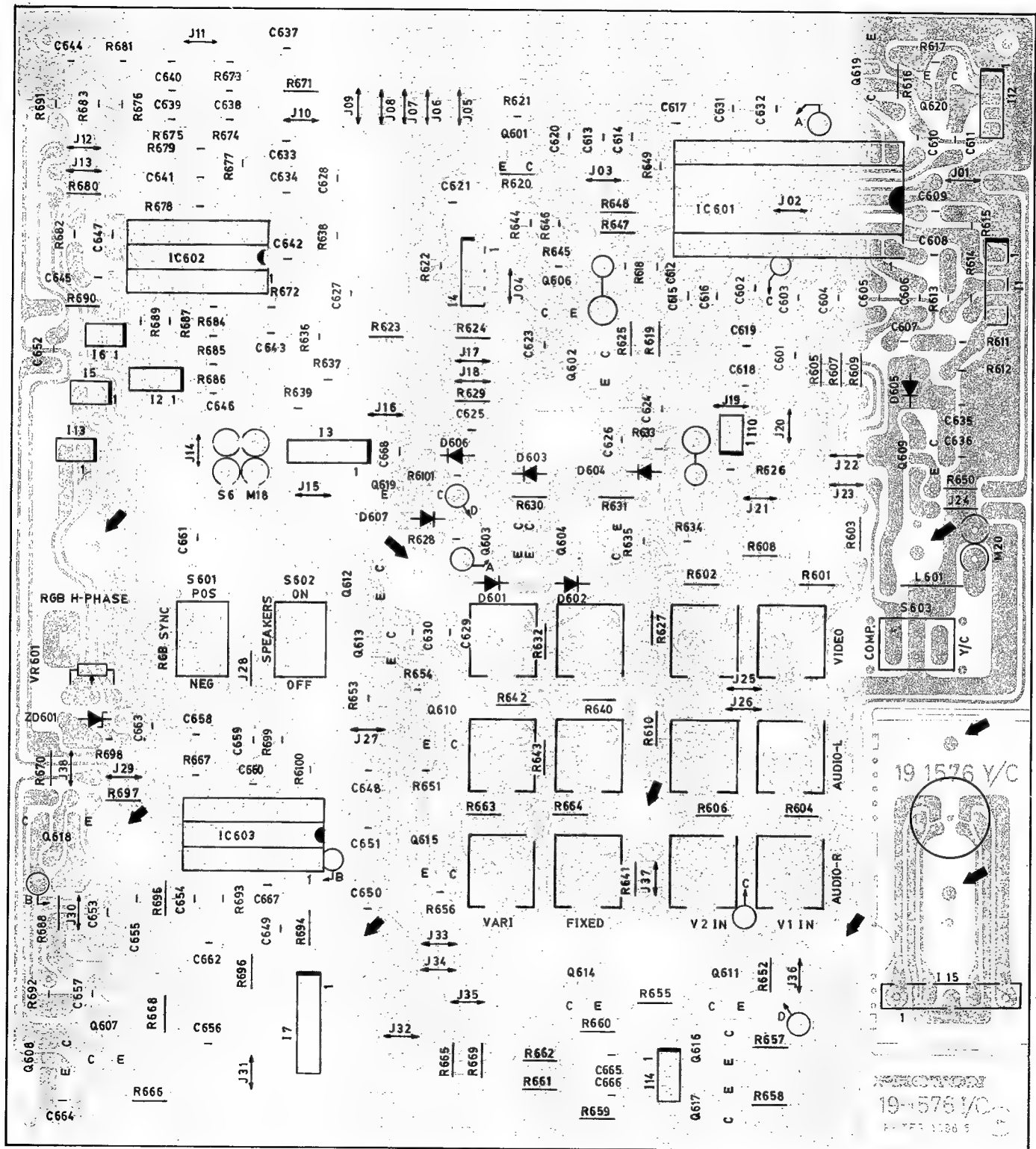
PCB PARTS LOCATIONS (TOP VIEW)



PCB PARTS LOCATIONS (TOP VIEW)



PCB PARTS LOCATIONS (BOTTOM VIEW)



ELECTRICAL PARTS LIST


REF.NO.	PARTS NO.	DESCRIPTION
PICTURE TUBE & DY ASSY		
V901	31-4030	CRT & DY A68JSA60X-04(T)
INTEGRATED CIRCUITS		
IC81	30-3478	M50460-001FP RC XMER 24
IC101	30-3405	M51365SP PLL PIF/SIF 30
IC221	30-3562	LA7952 Y/C SEP 9
IC222	30-3562	LA7952 Y/C SEP 9
IC251	30-3412	CX20125 BLACK EXPAN 8
IC271	30-3556	M51494L CORING 10
IC272	30-3244	CD4066BE SW Q CMOS 14
IC301	30-3552	TDA1521 PW AMP 10W 9
△ IC401	30-3561	TDA2579 H/V DEF 18
IC461	30-3422	AN5521 VERT DEFC O/P 7
IC501	30-3378	TDA3563 VIDEO CHROMA 28
IC601	30-3375	TA7717AP A/V SW 30
IC602	30-3505	TDA3810 PSEUDO STEREO 18
IC603	30-3534	TDA1524A VOL/BAL D 18
IC701	30-3474	TV TUNNING M50443-300SP
IC702	30-3475	TV ON SCREEN M50450-032P
IC703	30-3476	EPROM M58658P
IC704	30-3477	D/A CONVERTOR UPC6326C
IC705	30-3428	BAND SW/SD UPC1484CA
IC706	30-3053	REGULATOR 78M12
IC707	30-3428	BAND SW/SD UPC1484CA
△ IC831	30-3234*A	TDA4601 SMPS CTRL 9
△ IC871	30-3385	L78S12CV RGLTR 12V 3
TRANSISTORS		
Q81	30-2074-2	TR BC547B N 200MA 45V
Q82	30-2328	TR BC368 N 1A 20V
Q101	30-2336	TR BF959 N 100MA 30V
Q102	30-2084-3TR	TR BC549C N 200MA 30V
Q103	30-2337TR	TR BC337-16 N 500MA 45V
Q201	30-2074-2TR	TR BC547B N 200MA 45V
Q202	30-2074-2TR	TR BC547B N 200MA 45V
Q211	30-2074-2TR	TR BC547B N 200MA 45V
Q212	30-2332-2TR	TR BC557B P -100MA 45V
Q213	30-2074-2TR	TR BC547B N 200MA 45V
Q221	30-2074-2TR	TR BC547B N 200MA 45V
Q222	30-2332-2TR	TR BC557B P -100MA 45V
Q231	30-2074-2TR	TR BC547B N 200MA 45V
Q232	30-2074-2TR	TR BC547B N 200MA 45V
Q233	30-2074-2TR	TR BC547B N 200MA 45V
Q241	30-2332-2TR	TR BC557B P -100MA 45V
Q242	30-2074-2TR	TR BC547B N 200MA 45V
Q243	30-2332-2TR	TR BC557B P -100MA 45V
Q244	30-2074-2TR	TR BC547B N 200MA 45V
Q245	30-2074-2TR	TR BC547B N 200MA 45V

Note: The components identified by shading and mark △ are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
Q251	30-2074-2TR	TR BC547B N 200MA 45V
Q252	30-2074-2TR	TR BC547B N 200MA 45V
Q253	30-2359	TR 2SD655E N 0.7A 15V
Q261	30-2074-2TR	TR BC547B N 200MA 45V
Q262	30-2074-2TR	TR BC547B N 200MA 45V
Q263	30-2074-2TR	TR BC547B N 200MA 45V
Q271	30-2074-2TR	TR BC547B N 200MA 45V
Q281	30-2074-2TR	TR BC547B N 200MA 45V
Q282	30-2074-2TR	TR BC547B N 200MA 45V
Q283	30-2332-2TR	TR BC557B P -100MA 45V
Q284	30-2357	TR 2SC1583 N 100MA 50V
Q285	30-2074-2TR	TR BC547B N 200MA 45V
Q291	30-2074-2TR	TR BC547B N 200MA 45V
Q361	30-2074-2TR	TR BC547B N 200MA 45V
Q362	30-2074-2TR	TR BC547B N 200MA 45V
Q363	30-2420	TR 2SB861C P -2A -150V
Q371	30-2332-2TR	TR BC557B P -100MA 45V
Q372	30-2332-2TR	TR BC557B P -100MA 45V
Q381	30-2074-2TR	TR BC547B N 200MA 45V
Q411	30-2074-2TR	TR BC547B N 200MA 45V
Q431	30-2074-2TR	TR BC547B N 200MA 45V
Q432	30-2332-2TR	TR BC557B P -100MA 45V
Q451	30-2428	TR BUX87
△ Q452	30-2407	TR BU508A
Q461-2	30-2074-2TR	TR BC547B N 200MA 45V
Q501	30-2074-2TR	TR BC547B N 200MA 45V
Q502	30-2332-2TR	TR BC557B P -100MA 45V
Q503	30-2332-2TR	TR BC557B P -100MA 45V
Q504	30-2074-2TR	TR BC547B N 200MA 45V
Q531	30-2074-2TR	TR BC547B N 200MA 45V
Q532	30-2074-2TR	TR BC547B N 200MA 45V
Q541	30-2074-2TR	TR BC547B N 200MA 45V
Q542	30-2074-2TR	TR BC547B N 200MA 45V
Q543	30-2074-2TR	TR BC547B N 200MA 45V
Q601	30-2074-2TR	TR BC547B N 200MA 45V
Q602	30-2074-2TR	TR BC547B N 200MA 45V
Q603	30-2074-2TR	TR BC547B N 200MA 45V
Q604	30-2074-2TR	TR BC547B N 200MA 45V
Q605	30-2332-2TR	TR BC557B P -100MA 45V
Q606	30-2074-2TR	TR BC547B N 200MA 45V
Q607	30-2074-2TR	TR BC547B N 200MA 45V
Q608	30-2074-2TR	TR BC547B N 200MA 45V
Q609	30-2074-2TR	TR BC547B N 200MA 45V
Q610	30-2074-2TR	TR BC547B N 200MA 45V
Q611	30-2074-2TR	TR BC547B N 200MA 45V
Q612	30-2074-2TR	TR BC547B N 200MA 45V
Q613	30-2074-2TR	TR BC547B N 200MA 45V

Note: The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

REF.NO.	PARTS NO.	DESCRIPTION
Q614	30-2074-2TR	TR BC547B N 200MA 45V
Q615	30-2074-2TR	TR BC547B N 200MA 45V
Q616	30-2074-2TR	TR BC547B N 200MA 45V
Q617	30-2074-2TR	TR BC547B N 200MA 45V
Q618	30-2074-2TR	TR BC547B N 200MA 45V
Q619	30-2074-2TR	TR BC547B N 200MA 45V
Q620	30-2074-2TR	TR BC547B N 200MA 45V
Q701	30-2337-1	TR BC337-25 N 500MA 45V
Q702	30-2074-2TR	TR BC547B N 200MA 45V
Q703	30-2074-2TR	TR BC547B N 200MA 45V
Q704	30-2074-2TR	TR BC547B N 200MA 45V
Q705	30-2074-2TR	TR BC547B N 200MA 45V
Q706	30-2074-2TR	TR BC547B N 200MA 45V
Q707	30-2074-2TR	TR BC547B N 200MA 45V
Q708	30-2332-2TR	TR BC557B P -100MA 45V
Q709	30-2332-2TR	TR BC557B P -100MA 45V
Q710	30-2332-2TR	TR BC557B P -100MA 45V
Q711	30-2074-2TR	TR BC547B N 200MA 45V
Q712	30-2332-2TR	TR BC557B P -100MA 45V
Q713	30-2074-2TR	TR BC547B N 200MA 45V
Q714	30-2074-2TR	TR BC547B N 200MA 45V
Q715	30-2074-2TR	TR BC547B N 200MA 45V
Q716	30-2074-2TR	TR BC547B N 200MA 45V
Q717	30-2332-2TR	TR BC557B P -100MA 45V
Q718	30-2074-2TR	TR BC547B N 200MA 45V
Q719	30-2332-2TR	TR BC557B P -100MA 45V
Q721	30-2074-2TR	TR BC547B N 200MA 45V
Q722	30-2074-2TR	TR BC547B N 200MA 45V
Q723	30-2074-2TR	TR BC547B N 200MA 45V
Q724	30-2074-2TR	TR BC547B N 200MA 45V
Q725	30-2074-2TR	TR BC547B N 200MA 45V
Q726	30-2074-2TR	TR BC547B N 200MA 45V
Q727	30-2074-2TR	TR BC547B N 200MA 45V
Q728	30-2074-2TR	TR BC547B N 200MA 45V
Q729	30-2074-2TR	TR BC547B N 200MA 45V
Q730	30-2337-1	TR BC337-25 N 500MA 45V
Q731	30-2074-2TR	TR BC547B N 200MA 45V
Q732	30-2074-2TR	TR BC547B N 200MA 45V
Q733	30-2337-1	TR BC337-25 N 500MA 45V
Q734	30-2332-2TR	TR BC557B P -100MA 45V
Q841	30-2392	TR BUW12A N 8A 450V
Q901	30-2074-2TR	TR BC547B N 200MA 45V
Q902	30-2074-2TR	TR BC547B N 200MA 45V
Q903	30-2074-2TR	TR BC547B N 200MA 45V
Q904	30-2074-2TR	TR BC547B N 200MA 45V
Q905	30-2330	TR BF459 N 100MA 100V
Q906	30-2330	TR BF459 N 100MA 100V


Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
Q907	30-2330	TR BF459 N 100MA 100V
Q908	30-2330	TR BF459 N 100MA 100V
Q909	30-2330	TR BF459 N 100MA 100V
Q910	30-2330	TR BF459 N 100MA 100V
Q951	30-2074-2TR	TR BC547B N 200MA 45V
Q952	30-2074-2TR	TR BC547B N 200MA 45V
Q953	30-2074-2TR	TR BC547B N 200MA 45V
Q954	30-2074-2TR	TR BC547B N 200MA 45V
Q955	30-2074-2TR	TR BC547B N 200MA 45V
Q956	30-2074-2TR	TR BC547B N 200MA 45V
Q957	30-2332-2	TR BC557B P -100MA 45V
Q958	30-2390	TR A958 P 2A 200V
Q959	30-2391	TR C2168 N 2A 200V
DIODES		
D81	30-1152	DIO 1N4148 HSS 100V 150MA
D82	30-1152	DIO 1N4148 HSS 100V 150MA
D83	30-1152	DIO 1N4148 HSS 100V 150MA
D84	30-1152	DIO 1N4148 HSS 100V 150MA
D85	30-1152	DIO 1N4148 HSS 100V 150MA
D86	30-1152	DIO 1N4148 HSS 100V 150MA
D87	30-1152	DIO 1N4148 HSS 100V 150MA
D88	30-1152	DIO 1N4148 HSS 100V 150MA
D241	30-1152TA	DIO 1N4148 HSS 100V 150MA
D261	30-1152TA	DIO 1N4148 HSS 100V 150MA
D281	30-1010-1	DIO 1S188FM1 GEM 40V 50%
D292	30-1152TA	DIO 1N4148 HSS 100V 150MA
D293	30-1152TA	DIO 1N4148 HSS 100V 150MA
D294	30-1152TA	DIO 1N4148 HSS 100V 150MA
D371	30-1152TA	DIO 1N4148 HSS 100V 150MA
D372	30-1152TA	DIO 1N4148 HSS 100V 150MA
D381	30-1152TA	DIO 1N4148 HSS 100V 150MA
D431	30-1268	DIO RGP10D RET 200V 1A
D451	30-1348	DIO BY228 PAE 1.5KV 5A
D452	30-1350	DIO RET800 6A SRP600K
D471	30-1268	DIO RGP10D RET 200V 1A
D481	30-1322	DIO RGP01-20 RET 2KV 20A
D482	30-1228	DIO RGP01-16 RET 1.6KV 100MA
D483	30-1268	DIO RGP10D RET 200V 1A
D484	30-1268	DIO RGP10D RET 200V 1A
D485	30-1268	DIO RGP10D RET 200V 1A
D511	30-1152TA	DIO 1N4148 HSS 100V 150MA
D601	30-1152TA	DIO 1N4148 HSS 100V 150MA
D602	30-1152TA	DIO 1N4148 HSS 100V 150MA
D603	30-1152TA	DIO 1N4148 HSS 100V 150MA
D604	30-1152TA	DIO 1N4148 HSS 100V 150MA
D605	30-1152TA	DIO 1N4148 HSS 100V 150MA
D701	30-1152TA	DIO 1N4148 HSS 100V 150MA

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
D702	30-1152TA	DIO 1N4148 HSS 100V 150MA
D703	30-1152TA	DIO 1N4148 HSS 100V 150MA
D704	30-1152TA	DIO 1N4148 HSS 100V 150MA
D705	30-1152TA	DIO 1N4148 HSS 100V 150MA
D706	30-1152TA	DIO 1N4148 HSS 100V 150MA
D707	30-1152TA	DIO 1N4148 HSS 100V 150MA
D708	30-1152TA	DIO 1N4148 HSS 100V 150MA
D709	30-1152TA	DIO 1N4148 HSS 100V 150MA
D711	30-1152TA	DIO 1N4148 HSS 100V 150MA
D712	30-1152TA	DIO 1N4148 HSS 100V 150MA
D713	30-1152TA	DIO 1N4148 HSS 100V 150MA
D714	30-1152TA	DIO 1N4148 HSS 100V 150MA
D715	30-1152TA	DIO 1N4148 HSS 100V 150MA
D716	30-1152TA	DIO 1N4148 HSS 100V 150MA
D717	30-1152TA	DIO 1N4148 HSS 100V 150MA
D718	30-1152TA	DIO 1N4148 HSS 100V 150MA
D719	30-1152TA	DIO 1N4148 HSS 100V 150MA
D720	30-1152TA	DIO 1N4148 HSS 100V 150MA
D721	30-1002A	DIO 1N4002 RET 100V 1A
D722	30-1002A	DIO 1N4002 RET 100V 1A
D731	30-1152TA	DIO 1N4148 HSS 100V 150MA
D732	30-1152TA	DIO 1N4148 HSS 100V 150MA
D733	30-1152TA	DIO 1N4148 HSS 100V 150MA
D734	30-1152TA	DIO 1N4148 HSS 100V 150MA
D735	30-1152TA	DIO 1N4148 HSS 100V 150MA
D736	30-1152TA	DIO 1N4148 HSS 100V 150MA
D737	30-1152TA	DIO 1N4148 HSS 100V 150MA
D738	30-1152TA	DIO 1N4148 HSS 100V 150MA
D739	30-1152TA	DIO 1N4148 HSS 100V 150MA
D740	30-1152TA	DIO 1N4148 HSS 100V 150MA
D741	30-1152	DIO 1N4148 HSS 100V 150MA
D742	30-1152	DIO 1N4148 HSS 100V 150MA
D743	30-1152TA	DIO 1N4148 HSS 100V 150MA
D744	30-1152TA	DIO 1N4148 HSS 100V 150MA
D745	30-1152TA	DIO 1N4148 HSS 100V 150MA
D746	30-1152TA	DIO 1N4148 HSS 100V 150MA
D747	30-1152TA	DIO 1N4148 HSS 100V 150MA
D748	30-1152TA	DIO 1N4148 HSS 100V 150MA
D749	30-1152TA	DIO 1N4148 HSS 100V 150MA
D811	30-1307	DIO GP20G RET 400V 2A
D812	30-1307	DIO GP20G RET 400V 2A
D813	30-1307	DIO GP20G RET 400V 2A
D814	30-1307	DIO GP20G RET 400V 2A
D821	30-1162	DIO DF02M BRG 200V 1A
D822	30-1002A	DIO 1N4002 RET 100V 1A
D824	30-1002A	DIO 1N4002 RET 100V 1A
D825	30-1002A	DIO 1N4002 RET 100V 1A

REF.NO.	PARTS NO.	DESCRIPTION
D831	30-1268	DIO RGP10D RET 200V 1A
D841	30-1293	DIO GP10G RET 400V 1A
D842	30-1268	DIO RGP10D RET 200V 1A
D843	30-1002A	DIO 1N4002 RET 100V 1A
D844	30-1002A	DIO 1N4002 RET 100V 1A
D845	30-1271	DIO RGP10K RET 800V 1A
D851	30-1281	DIO RGP20G RET 400V 2A
D861	30-1280	DIO RGP20D RET 200V 2A
D862	30-1280	DIO RGP20D RET 200V 2A
D901	30-1152TA	DIO 1N4148 HSS 100V 150MA
D902	30-1152TA	DIO 1N4148 HSS 100V 150MA
D903	30-1152TA	DIO 1N4148 HSS 100V 150MA
D904	30-1152TA	DIO 1N4148 HSS 100V 150MA
D952	30-1010	DIO 1N60 GEM 40V 50%
D953	30-1010	DIO 1N60 GEM 40V 50%
D954	30-1152	DIO 1N4148 HSS 100V 150MA
D955	30-1152	DIO 1N4148 HSS 100V 150MA
ZENER DIODES		
ZD101	30-1323	DIO HZ9C-3 ZNR 1/2W 9.5V
ZD261	30-1058	DIO RD5.1EB3 ZNR 1/2W 5.1V
ZD371	30-1058	DIO RD5.1EB3 ZNR 1/2W 5.1V
ZD431	30-1235	DIO RD9.1EB2 ZNR 1/2W 8.7V
ZD601	30-1173-1	DIO HZ3C1 ZNR 1/2W 3.3V
ZD701	30-1173-1	DIO HZ3C-1 ZNR 1/2W 3.3V
ZD702	30-1173-1	DIO HZ3C-1 ZNR 1/2W 3.3V
ZD703	30-1147-1TA	DIO HZ30-2TD ZNR 1/2W 29.9V
ZD704	30-1058	DIO RD5.1EB3 ZNR 1/2W 5.1V
ZD705	30-1323	DIO HZ93 ZNR 1/2W 9.5V
ZD706	30-1259	DIO RD5.6EB3 ZNR 1/2W 5.8V
LIGHT EMITTING DIODES		
LD71	30-1208	LED RD REC 1.9X5.5 SE6311H
LD72	30-1209	LED GN REC 1.9X5.5 SE6321
LD73	30-1208	LED RD REC 1.9X5.5 SE6311H
LD74	30-1209	LED GN REC 1.9X5.5 SE6321
LD75	30-1210	LED YL REC 1.9X5.5 SE-6331
LD81	30-1211	LED RD CIR 1.65 BR2202S
LD82	30-1320	DIO LTE-5208 IRT 215MW
LD83	30-1320	DIO LTE-5208 IRT 215MW
FILTER & CRYSTALS		
SF101	29-3228	SAW TSB2203
CF101	29-3136	CF SIF SFE4.5MB
CF102	29-3219	CF TPS 4.5MC
Z221	29-3171	TRAP 3.58MHZ
Z521	29-3138	BPF 3.58MHZ
X81	29-3174	CR CSB455E
X521	30-4010	XTAL 7.15909MHZ HC-18/U
X701	30-4006	4MHZ


Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

REF.NO.	PARTS NO.	DESCRIPTION
TRANSFORMERS		
T451	29-2174	XFMR HDT VT-290
T452	29-2172	XFMR FBT 29" KF58131FU
T801	29-2135-4	XFMR PW EI-41 120V UL
T841	29-2162	XFMR CONVERTER VT-296
FUSE		
F801	32-14001W	FUSE 6.3X32MM ULCSA SLOW 4A
F811	32-12501U	FUSE 6.3X32MM ULCSA NORM 2.5A
SWITCHES		
S601	31-1260-1	SW SLIDE SSB022NA02-FL
S602	31-1260-1	SW SLIDE SSB022NA02-FL
S603	31-1260-1	SW SLIDE SSB022NA02-FL
S721	31-1260-1	SW SLIDE SSB022NA02-FL
S722	31-1260-1	SW SLIDE SSB022NA02-FL
S723	31-1260-1	SW SLIDE SSB022NA02-FL
S724	31-1260-1	SW SLIDE SSB022NA02-FL
S725	31-1260-1	SW SLIDE SSB022NA02-FL
S726	31-1260-1	SW SLIDE SSB022NA02-FL
S727	31-1260-1	SW SLIDE SSB022NA02-FL
S801	31-1272	SW PW PUSH UL/CSA/VDE/SEMKO
RELAYS		
K721	35-3050	RELAY G2E-187P-M 12VDC
K722	35-3049	RELAY RF G4Y-152P 12VDC
K821	35-3034	RELAY JC2ADC12V
DELAY LINE		
DL211	29-7001	DELAY LINE 1H EFD-EN645B85E
DL241	29-7002	DELAY LINE 0.4US
COILS		
L2	29-9001	MAGNET & V.M. COIL ETC-35X7B 693M
L101	CP-0910RSR47K	COIL PEAKING 0.47UH +-10%
L102	29-1260	COIL FIXED 0.68UH
L103	CP-0910RS680K	COIL PEAKING RS 68UH +-10%
L104	CP-0910RS680K	COIL PEAKING RS 68UH +-10%
L105	CP-0910RS680K	COIL PEAKING RS 68UH +-10%
L106	CP-0910RS120K	COIL PEAKING RS 12UH +-10%
L107	29-3230	IFT AFT 45.75MHZ
L108	29-3229	IFT PIF 45.75MHZ
L109	29-3236	IFT SIF 4.5MHZ
L201	CP-0910RS101K	COIL PEAKING RS 100UH +-10%
L202	CP-0910RS101K	COIL PEAKING RS 100UH +-10%
L211	29-1169	COIL VARI 10.7UH +-6%
L212	CP-0910RS101K	COIL PEAKING RS 100UH +-10%
L281	CP-0910RS270K	COIL PEAKING RS 27UH +-10%
L282	CP-0910RS271K	COIL PEAKING RS 270UH +-10%
L291	CP-0910RS100K	COIL PEAKING RS 10UH +-10%
L351	29-1287	COIL LINEAR COMP 25UH +-10%

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

REF.NO.	PARTS NO.	DESCRIPTION
L352	29-1286	COIL LINEARITY 15.5UH +-20%
L361	29-1265	COIL PIN CHOKE 400UH
L601	29-1145-1	COIL 220 UH +-10%
L701	18-1025	CORE RH03506B
L702	18-1025	CORE RH03506B
L703	18-1025	CORE RH03506B
L704	18-1025	CORE RH03506B
L705	18-1025	CORE RH03506B
L706	18-1025	CORE RH03506B
L801	29-1244	COIL LINE CHOCK 1MHX2 13MM
L802	29-1242	COIL LINE CHOCK 3.5MHX2 20MM
L805	29-1288	COIL DEGAUSSING
L806	18-1043	CORE RING 25X10X14.5MM
L811	18-1025	CORE RH03506B
L841	29-1254	COIL CHOCK 2.2UH +-20%
L842	18-1025	CORE RH03506B
L843	18-1025	CORE RH03506B
L844	18-1025	CORE RH03506B
L845	18-1025	CORE RH03506B
L846	18-1025	CORE RH03506B
L847	18-1025	CORE RH03506B
L848	18-1025	CORE RH03506B
L849	18-1025	CORE RH03506B
L851	29-1142	COIL CHOKE 330UH +-10%
L861	29-1142	COIL CHOKE 330UH +-10%
L862	29-1142	COIL CHOKE 330UH +-10%
TUNER & SPEAKER		
SP601	35-6040	SPK FULL 3W 32 OHM 9X6CM
SP602	35-6040	SPK FULL 3W 32 OHM 9X6CM
TN701	35-2053	TUNER UHF/VHF TEMH3-801A 181CH
RES & DIODE ASSY		
Z551	16-2016	RES ASSY 2K2X6
Z701	16-2037	RES ASSY 22KX8
PR801	16-2008	POSISTOR 80HM +-30%
ZR801	16-2008	ZNR ERZ-C10DK221U
POWER CORD		
P801	14-5049*A	PW CORD SPT-2 #18X3 PLUG W/P
VARIABLE RESISTORS		
VR101	VR03-F08502B	SEMI-FIX 8* 5KB FLAT W/SHAFT
VR211	VR03-F08501B	SEMI-FIX 8* 500B FLAT W/SHAFT
VR271	VR03-F08103B	SEMI-FIX 8* 10KB FLAT W/SHAFT
VR272	VR03-F08103B	SEMI-FIX 8* 10KB FLAT W/SHAFT
VR291	VR03-F08103B	SEMI-FIX 8* 10KB FLAT W/SHAFT
VR361	VR03-F08103B	SEMI-FIX 8* 10KB FLAT W/SHAFT
VR362	VR03-F08501B	SEMI-FIX 8* 500B FLAT W/SHAFT
VR381	VR03-F08501B	SEMI-FIX 8* 500B FLAT W/SHAFT
VR421	VR03-F08503B	SEMI-FIX 8* 50KB FLAT W/SHAFT

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
VR422	VR03-F08103B	SEMI-FIX 8* 10KB FLAT W/SHAFT
VR461	VR03-F08204B	SEMI-FIX 8* 200KB FLAT W/SHAFT
VR471	VR03-F08202B	SEMI-FIX 8* 2KB FLAT W/SHAFT
VR511	VR03-F08103B	SEMI-FIX 8* 10KB FLAT W/SHAFT
VR521	VR03-F08103B	SEMI-FIX 8* 10KB FLAT W/SHAFT
VR522	VR03-F08103B	SEMI-FIX 8* 10KB FLAT W/SHAFT
VR601	29-4326	VR 12* 20KBX1 SHAFT 10MM
VR701	VR03-V08202B	SEMI-FIX 8* 2KB VERT W/SHAFT
VR702	VR03-V08202B	SEMI-FIX 8* 2KB VERT W/SHAFT
VR703	VR03-V08202B	SEMI-FIX 8* 2KB VERT W/SHAFT
VR831	VR03-V08202B	SEMI-FIX 8* 2KB VERT W/SHAFT
VR901	VR03-V08102B	SEMI-FIX 8* 1KB VERT W/SHAFT
VR902	VR03-V08102B	SEMI-FIX 8* 1KB VERT W/SHAFT
VR903	VR03-V08102B	SEMI-FIX 8* 1KB VERT W/SHAFT
VR904	VR03-V08202B	SEMI-FIX 8* 2KB VERT W/SHAFT
VR905	VR03-V08202B	SEMI-FIX 8* 2KB VERT W/SHAFT
PRINTED CIRCUIT BOARD		
PIF	19-1406	85X80MM
MAIN	19-1575	330X247MM
I/O	19-1576	195X177MM
ANT	19-1356	54X37MM
SMPS	19-1493*C	247X247MM
V.M	19-1494*C	122X62MM
CRT	19-1420*A	110X100MM
SW/CED	19-1577	327X76MM
DTS	19-1562	330X163MM
RGB	19-1418*A	123X70MM
R/C	19-1565	140X54MM
OTHER	DBX-02	SBX1475-11 MTS DECODER
	RCP-01	R/C PRE-AMP BX-1407
CAPACITORS		
C81	17-1ER107M	CAP E R 100U 10V +-20%
C82	17-5DF103Z	CAP D F 0.01U 50V +80-20%
C83	17-5DF221K	CAP D F 220P 50V +-10%
C84	17-5DF221K	CAP D FF 220P 50V +-10%
C101	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C102	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C103	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C104	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C105	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C106	17-1.6ER336M	CAP E R 33U 16V +-20%
C107	17-5DF103Z	CAP D F 0.01U 50V +80-20%
C108	17-1.6ER336M	CAP E R 33U 16V +-20%
C109	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C110	17-5ER474M	CAP E R 0.47U 50V +-20%
C111	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C112	17-5DR103Z	CAP D R 0.01U 50V +80-20%

Note: The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
C113	17-1.6ER336M	CAP E R 33U 16V +-20%
C114	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C115	17-5ER474M	CAP E R 0.47U 50V +-20%
C116	17-5ER105M	CAP E R 1U 50V +-20%
C117	17-5HF224J	CAP H F 0.22U 50V +-5%
C118	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C119	17-5DR7R0DCH	CAP D R 7P 50V +-0.5P CH
C120	17-5ER105M	CAP E R 1U 50V +-20%
C121	17-1.6ER336M	CAP E R 33U 16V +-20%
C122	17-1.6ER336M	CAP E R 33U 16V +-20%
C123	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C124	17-1.6ER336M	CAP E R 33U 16V +-20%
C201	17-5ER106M	CAP E R 10U 50V +-20%
C211	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C212	17-1.6ER336M	CAP E R 33U 16V +-20%
C213	17-5DR223Z	CAP D R 0.022U 50V +80-20%
C221	17-5ER106M	CAP E R 10U 50V +-20%
C223	17-5DF104Z	CAP D F 0.1U 50V +80-20%
C224	17-5DF104Z	CAP D F 0.1U 50V +80-20%
C231	17-5ER106M	CAP E R 10U 50V +-20%
C232	17-5ER106M	CAP E R 10U 50V +-20%
C241	17-5DR330JCH	CAP D R 33P 50V +-5% CH
C251	17-5ER105M	CAP E R 1U 50V +-20%
C252	17-1.6SF106M	CAP S F 10U 16V +-20%
C253	17-5ER106M	CAP E R 10U 50V +-20%
C261	17-5ER105M	CAP E R 1U 50V +-20%
C262	17-5ER475M	CAP E R 4.7U 50V +-20%
C263	17-5DR151JSL	CAP D R 150P 50V +-5% SL
C264	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C265	17-5DR151J	CAP D R 150P 50V +-5% SL
C266	17-1.6ER476M	CAP E R 47U 16V +-20%
C271	17-5TR104K	CAP T R 0.1U 50V +-10%
C272	17-5DR151JSL	CAP D R 150P 50V +-5% SL
C273	17-1.6ER476M	CAP E R 47U 16V +-20%
C274	17-5ER106M	CAP E R 10U 50V +-20%
C275	17-5ER106M	CAP E R 10U 50V +-20%
C281	17-5DR121J	CAP D R 120P 50V +-5%
C282	17-5DR121J	CAP D R 120P 50V +-5%
C283	17-5DR473Z	CAP D R 0.047U 50V +80-20%
C284	17-5DR473Z	CAP D R 0.047U 50V +80-20%
C285	17-1.6ER336M	CAP E R 33U 16V +-20%
C291	17-1.6ER336M	CAP E R 33U 16V +-20%
C292	17-5DR223Z	CAP D R 0.022U 50V +80-20%
C293	17-5ER475M	CAP E R 4.7U 50V +-20%
C294	17-1.6ER476M	CAP E R 47U 16V +-20%
C295	17-5DR223Z	CAP D R 0.022U 50V +80-20%
C296	17-5DR103Z	CAP D R 0.01U 50V +80-20%

Note: The components identified by shading and mark **▲** are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
C297	17-5DR470JCH	CAP CER R 47PF50V +-5% CH
C298	17-5ER106M	CAP E R 10U 50V +-20%
C303	17-5DF104Z	CAP D F 0.1U 50V +-80-20%
C304	17-5EG108M	CAP E G 1000U 50V +-20%
C313	17-5ER474M	CAP E R 0.47U 50V +-20%
C314	17-2.5ER107M	CAP E R 100U 25V +-20%
C315	17-5TR104K	CAP T R 0.1U 50V +-10%
C316	17-2.5EF108M	CAP E F 1000U 25V +-20%
C323	17-5ER474M	CAP E R 0.47U 50V +-20%
C325	17-5TR104K	CAP T R 0.1U 50V +-10%
C326	17-2.5EF108M	CAP E F 1000U 25V +-20%
C351	17-25BK334J	CAP B K 0.33U 250V +-5%
C352	17-25BK474J	CAP B K 0.47U 250V +-5%
C353	17-25BK474J	CAP B K 0.47U 250V +-5%
C354	17-50DF222K	CAP D F 2200P 500V +-10%
C361	17-2.5ER476M	CAP E R 47U 25V +-20%
C362	17-2.5OR335K	CAP O R 3.3U 25V +-10%
C363	17-2068	ELBP 10UF50V +-20% 15KHZ
C371	17-1.6ER107M	CAP E R 100U 16V +-20%
C381	17-5ER106M	CAP E R 10U 50V +-20%
C401	17-2.5ER226M	CAP E R 22U 25V +-20%
C402	17-5ER106M	CAP E R 10U 50V +-20%
C403	17-5DR151JSL	CAP D R 150P 50V +-5% SL
C411	17-1.6ER476M	CAP E R 47U 16V +-20%
C412	17-5DR223Z	CAP D R 0.022U 50V +-80-20%
C421	17-5TR104K	CAP T R 0.1U 50V +-10%
C422	17-5U272J	CAP U 2700P 50V +-5%
C423	17-1.6ER476M	CAP E R 47U 16V +-20%
C424	17-5TR104K	CAP T R 0.1U 50V +-10%
C425	17-5ER225M	CAP E R 2.2U 50V +-20%
C426	17-5ER106M	CAP E R 10U 50V +-20%
C427	17-5TR104K	CAP T R 0.1U 50V +-10%
C428	17-5DR101J	CAP D R 100P 50V +-5%
C431	17-5ER106M	CAP E R 10U 50V +-20%
C432	17-5ER106M	CAP E R 10U 50V +-20%
C433	17-5ER106M	CAP E R 10U 50V +-20%
C441	17-2.5ER226M	CAP E R 22U 25V +-20%
C442	17-5ER105M	CAP E R 1U 50V +-20%
C443	17-5ER105M	CAP E R 1U 50V +-20%
C451	17-5ER475M	CAP E R 4.7U 50V +-20%
C452	17-50DF100JSL	CAP D F 10P 500V +-5% SL
C453	17-50DF222K	CAP D F 2200P 500V +-10%
C454	17-2KD101JSL	CAP D 100P 2KV +-5% SL
C455	17-50DF331K	CAP D F 330P 500V +-10%
C456	17-2KBK103J	CAP B K 0.01U 2KV +-5%
C457	17-1.6KC822H	CAP C 8200P 1K6V +-3%
C458	17-40BH333J	CAP B H 0.033U 400V +-5%

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
C461	17-5FH154J	CAP F H 0.15U 50V +-5%
C462	17-3.5OR105K	CAP O R 1U 35V +-10%
C463	17-2.5EF108M	CAP E F 1000U 25V +-20%
C471	17-5DR472K	CAP D R 4700P 50V +-5%
C472	17-5HF154J	CAP H F 0.15U 50V +-5%
C474	17-5TR104K	CAP T R 0.1U 50V +-10%
C475	17-50DF221K	CAP D F 220P 500V +-10%
C476	17-5TR104K	CAP T R 0.1U 50V +-10%
C477	17-3.5EF107M	CAP E F 100U 35V +-20%
C478	17-3.5EF477M	CAP E F 470U 35V +-20%
C481	17-2KD681K-1	CAP D 680P 2KV +-10%
C482	17-25BJ104K	CAP B J 0.1U 250V +-10%
C483	17-25EG476M	CAP E G 47U 250V +-20%
C484	17-20EF476M	CAP E F 47U 200V +-20%
C485	17-3.5EF107M	CAP E F 100U 35V +-20%
C501	17-5ER106M	CAP E R 10U 50V +-20%
C503	17-5DR103Z	CAP D R 0.01U 50V +-80-20%
C504	17-3.5OR334K	CAP O R 0.33U 35V +-10%
C505	17-5DF104Z	CAP D F 0.1U 50V +-80-20%
C509	17-5ER106M	CAP E R 10U 50V +-20%
C511	17-5ER106M	CAP E R 10U 50V +-20%
C521	17-5DR221K	CAP D R 220P 50V +-10%
C522	17-5DR330JCH	CAP D R 33P 50V +-5% CH
C523	17-5DR223Z	CAP D R 0.022U 50V +-80-20%
C524	17-5ER105M	CAP E R 1U 50V +-20%
C525	17-5TR104K	CAP T R 0.1U 50V +-10%
C526	17-5DF104Z	CAP D F 0.1U 50V +-80-20%
C531	17-5DF104Z	CAP D F 0.1U 50V +-80-20%
C532	17-5DF104Z	CAP D F 0.1U 50V +-80-20%
C533	17-5DF104Z	CAP D F 0.1U 50V +-80-20%
C534	17-5DF104Z	CAP D F 0.1U 50V +-80-20%
C535	17-5DF104Z	CAP D F 0.1U 50V +-80-20%
C536	17-5DF104Z	CAP D F 0.1U 50V +-80-20%
C601	17-5ER106M	CAP E R 10U 50V +-20%
C602	17-5ER106M	CAP E R 10U 50V +-20%
C603	17-5ER105M	CAP E R 1U 50V +-20%
C604	17-5ER105M	CAP E R 1U 50V +-20%
C605	17-5ER105M	CAP E R 1U 50V +-20%
C606	17-5ER105M	CAP E R 1U 50V +-20%
C607	17-5ER105M	CAP E R 1U 50V +-20%
C608	17-5ER105M	CAP E R 1U 50V +-20%
C609	17-5ER106M	CAP E R 10U 50V +-20%
C610	17-5ER105M	CAP E R 1U 50V +-20%
C611	17-5ER105M	CAP E R 1U 50V +-20%
C612	17-5ER106M	CAP E R 10U 50V +-20%
C613	17-5DR103Z	CAP D R 0.01U 50V +-80-20%
C614	17-5ER106M	CAP E R 10U 50V +-20%

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
C615	17-5TR103J	CAP T R 0.01U 50V +-5%
C616	17-5TR103J	CAP T R 0.01U 50V +-5%
C617	17-5TR103J	CAP T R 0.01U 50V +-5%
C618	17-5DR103Z	CAP D R 0.01U 50V +-80-20%
C619	17-1.6EF337M	CAP E F 330U 16V +-20%
C620	17-1.6ER336M	CAP E R 33U 16V +-20%
C621	17-1.6EF477M	CAP E F 470U 16V +-20%
C623	17-1.6ER336M	CAP E R 33U 16V +-20%
C624	17-1.6EF477M	CAP E F 470U 16V +-20%
C625	17-1.6ER336M	CAP E R 33U 16V +-20%
C626	17-1.6E108M	CAP E 1000U 16V +-20%
C627	17-5ER106M	CAP E R 10U 50V +-20%
C628	17-5ER106M	CAP E R 10U 50V +-20%
C629	17-5ER106M	CAP E R 10U 50V +-20%
C630	17-5ER106M	CAP E R 10U 50V +-20%
C631	17-5ER474M	CAP E R 0.47U 50V +-20%
C632	17-5ER474M	CAP E R 0.47U 50V +-20%
C633	17-5DR103Z	CAP D R 0.01U 50V +-80-20%
C634	17-1.6ER336M	CAP E R 33U 16V +-20%
C635	17-1.6EF477M	CAP E F 470U 16V +-20%
C636	17-5DR103Z	CAP D R 0.01U 50V +-80-20%
C637	17-5TR102J	CAP T R 1000P 50V +-5%
C638	17-5TR103J	CAP T R 0.01U 50V +-5%
C639	17-5TR103J	CAP T R 0.01U 50V +-5%
C640	17-5TR223J	CAP T R 0.022U 50V +-5%
C641	17-5TR392J	CAP T R 3900P 50V +-5%
C642	17-1.6ER107M	CAP E R 100U 16V +-20%
C643	17-5TR102J	CAP T R 1000P 50V +-5%
C644	17-5TR103J	CAP T R 0.01U 50V +-5%
C645	17-5TR103J	CAP T R 0.01U 50V +-5%
C646	17-5TR392J	CAP T R 3900P 50V +-5%
C647	17-1.6ER476M	CAP E R 47U 16V +-20%
C648	17-1.6ER336M	CAP E R 33U 16V +-20%
C649	17-5DR103Z	CAP D R 0.01U 50V +-80-20%
C650	17-5TR104K	CAP T R 0.1U 50V +-10%
C651	17-1.6ER107M	CAP E R 100U 16V +-20%
C652	17-5ER225M	CAP E R 2.2U 50V +-20%
C653	17-5MR225M	CAP M R 2.2U 50V +-20%
C654	17-5TR153J	CAP T R 0.015U 50V +-5%
C655	17-5TR104K	CAP T R 0.1U 50V +-10%
C656	17-5ER106M	CAP E R 10U 50V +-20%
C657	17-1.6ER336M	CAP E R 33U 16V +-20%
C658	17-5TR153J	CAP T R 0.015U 50V +-5%
C659	17-5MR225M	CAP M R 2.2U 50V +-20%
C660	17-5TR563J	CAP T R 0.056U 50V +-5%
C661	17-5MR225M	CAP M R 2.2U 50V +-20%
C662	17-5TR104K	CAP T R 0.1U 50V +-10%

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
C663	17-5TR104K	CAP T R 0.1U 50V +-10%
C664	17-5ER106M	CAP E R 10U 50V +-20%
C665	17-5ER475M	CAP E R 4.7U 50V +-20%
C666	17-5ER475M	CAP E R 4.7U 50V +-20%
C667	17-5TR563J	CAP T R 0.056U 50V +-5%
C701	17-5DR330JCH	CAP D R 33P 50V +-5% CH
C702	17-5DR330JCH	CAP D R 33P 50V +-5% CH
C703	17-5ER106M	CAP E R 10U 50V +-20%
C704	17-1.6ER476M	CAP E R 47U 16V +-20%
C705	17-5DR103Z	CAP D R 0.01U 50V +-80-20%
C706	17-5DR223Z	CAP D R 0.022U 50V +-80-20%
C707	17-5TR103J	CAP T R 0.01U 50V +-5%
C708	17-5HF105J	CAP H F 1U 50V +-5%
C709	17-5ER106M	CAP E R 10U 50V +-20%
C710	17-1.6ER336M	CAP E R 33U 16V +-20%
C711	17-1.6ER336M	CAP E R 33U 16V +-20%
C712	17-5ER105M	CAP E R 1U 50V +-20%
C713	17-5ER225M	CAP E R 2.2U 50V +-20%
C714	17-5TR333J	CAP T R 0.033U 50V +-5%
C715	17-5U682J	CAP U 6800P 50V +-5%
C716	17-5ER225M	CAP E R 2.2U 50V +-20%
C717	17-5DR561K	CAP D R 560P 50V +-10%
C718	17-1.6ER107M	CAP E R 100U 16V +-20%
C719	17-5DR223Z	CAP D R 0.022U 50V +-80-20%
C720	17-5ER225M	CAP E R 2.2U 50V +-20%
C721	17-5DR223Z	CAP D R 0.022U 50V +-80-20%
C722	17-5DR330JCH	CAP D R 33P 50V +-5% CH
C723	17-5DF104Z	CAP D F 0.1U 50V +-80-20%
C724	17-5DR391K	CAP D R 390P 50V +-10%
C725	17-5DR471K	CAP D R 470P 50V +-10%
C726	17-5TR222J	CAP T R 2200P 50V +-5%
C727	17-5DR103Z	CAP D R 0.01U 50V +-80-20%
C728	17-5DR101JSL	CAP D R 100P 50V +-5% SL
C729	17-5DR101JSL	CAP D R 100P 50V +-5% SL
C730	17-5DR101JSL	CAP D R 100P 50V +-5% SL
C731	17-5DR101JSL	CAP D R 100P 50V +-5% SL
C732	17-5ER106M	CAP E R 10U 50V +-20%
C733	17-5DR103Z	CAP D R 0.01U 50V +-80-20%
C734	17-5ER106M	CAP E R 10U 50V +-20%
C735	17-5DR223Z	CAP D R 0.022U 50V +-80-20%
C736	17-5DR223Z	CAP D R 0.022U 50V +-80-20%
C741	17-5FH224J	CAP F H 0.22U 50V +-5%
C742	17-5DR103Z	CAP D R 0.01U 50V +-80-20%
C743	17-1.6ER336M	CAP E R 33U 16V +-20%
C744	17-5ER106M	CAP E R 10U 50V +-20%
C745	17-5ER106M	CAP E R 10U 50V +-20%
C746	17-5ER106M	CAP E R 10U 50V +-20%

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

REF.NO.	PARTS NO.	DESCRIPTION
C747	17-5ER106M	CAP E R 10U 50V +-20%
C748	17-1.6ER336M	CAP E R 33U 16V +-20%
C749	17-5DR223Z	CAP D R 0.022U 50V +80-20%
C750	17-1.6ER336M	CAP E R 33U 16V +-20%
C751	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C752	17-5DF104Z	CAP D F 0.1U 50V +80-20%
C753	17-5ER106M	CAP E R 10U 50V +-20%
C754	17-5ER106M	CAP E R 10U 50V +-20%
C755	17-1.6ER107M	CAP E R 100U 16V +-20%
C756	17-5DR223Z	CAP D R 0.022U 50V +80-20%
C757	17-1.6SF106M	CAP S F 10U 16V +-20%
C758	17-1.6SF106M	CAP S F 10U 16V +-20%
C761	17-5ER106M	CAP E R 10U 50V +-20%
C762	17-1.6ER336M	CAP E R 33U 16V +-20%
C763	17-5DR223Z	CAP D R 0.022U 50V +80-20%
C764	17-5ER106M	CAP E R 10U 50V +-20%
C765	17-1.6ER336M	CAP E R 33U 16V +-20%
C766	17-5DR223Z	CAP D R 0.022U 50V +80-20%
C767	17-5ER106M	CAP E R 10U 50V +-20%
C768	17-5DR223Z	CAP D R 0.022U 50V +80-20%
C769	17-1.6ER227M	CAP E R 220U 16V +-20%
C770	17-3.5EF107M	CAP E F 100U 35V +-20%
C771	17-5DR103Z	CAP D R 0.01U 50V +80-20%
C772	17-5ER476M	CAP E R 47U 50V +-20%
C801	17-2031-1	CAP 0.22UF 125VAC UL/CSA
C802	17-2031-1	CAP 0.22UF 125VAC UL/CSA
C803	17-2011	CAP CER 4700PF125VAC UL/CSA
C804	17-2011	CAP CER 4700PF125VAC UL/CSA
C805	17-2011	CAP CER 4700PF125VAC UL/CSA
C806	17-2011	CAP CER 4700PF125 VAC UL/CSA
C807	17-2067	CAP 0.1UF125VAC UL/CSA
C808	17-25BH104J	CAP B H 0.1U 250V +-5%
C811	17-2033	CAP CER 2200PF 125VAC UL/CSA
C812	17-2033	CAP CER 2200PF 125VAC UL/CSA
C813	17-2033	CAP CER 2200PF 125VAC UL/CSA
C814	17-2033	CAP CER 2200PF 125VAC UL/CSA
C815	17-2032-2	CAP EL 470UF200V +-50-10%
C816	17-50DH103P	CAP D H 0.01U 500V +100-0%
C817	17-2033	CAP CER 2200PF 125VAC UL/CSA
C818	17-2033	CAP CER 2200PF 125VAC UL/CSA
C821	17-50DF472Z	CAP D F 4700P 500V +80-20%
C822	17-50DF472Z	CAP D F 4700P 500V +80-20%
C824	17-2.5EF108M	CAP E F 1000U 25V +-20%
C825	17-5DH104Z	CAP D H 0.1U 50V +80-20%
C826	17-2.5EF336M	CAP E F 33U 25V +-20%
C827	17-2.5EF107M	CAP E F 100U 25V +-20%
C831	17-1.6EF107M	CAP E F 100U 16V +-20%

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

REF.NO.	PARTS NO.	DESCRIPTION
C832	17-5DF220JSL	CAP D F 22P 50V +-5% SL
C833	17-5EF105M	CAP E F 1U 50V +-20%
C834	17-10TF822J	CAP T F 8200P 100V +-5%
C835	17-10TF682J	CAP T F 6800P 100V +-5%
C841	17-2.5EF107M	CAP E F 100U 25V +-20%
C842	17-1.6EF107M	CAP E F 100U 16V +-20%
C843	17-1KBJ223K	CAP B J 0.022U 1KV +-10%
C845	17-10TF103J	CAP T F 0.01U 100V +-5%
C851	17-2KD331K-1	CAP D 330P 2KV +-10%
C852	17-16EG107M	CAP E G 100U 160V +-20%
C853	17-50DH103P	CAP D H 0.01U 500V +100-0%
C861	17-50DF271K	CAP D F 270P 500V +-10%
C862	17-2.5EF108M	CAP E F 1000U 25V +-20%
C863	17-5DH104Z	CAP D H 0.1U 50V +80-20%
C864	17-5EG108M	CAP E G 1000U 50V +-20%
C865	17-5DH104Z	CAP D H 0.1U 50V +80-20%
C866	17-50DF271K	CAP D F 270P 500V +-10%
C871	17-5DF104Z	CAP D F 0.1U 50V +80-20%
C872	17-2.5ER107M	CAP E R 100U 25V +-20%
C873	17-5DF104Z	CAP D F 0.1U 50V +80-20%
C874	17-5ER106M	CAP E R 10U 50V +-20%
C901	17-1.6ER336M	CAP E R 33U 16V +-20%
C902	17-1.6ER336M	CAP E R 33U 16V +-20%
C903	17-5DR220J	CAP D R 22P 50V +-5%
C904	17-5DR220J	CAP D R 22P 50V +-5%
C905	17-5DR220J	CAP D R 22P 50V +-5%
C906	17-25BJ104K	CAP B J 0.1U 250V +-10%
C907	17-25EF106M	CAP E F 10U 250V +-20%
C908	17-2KD331K-1	CAP D 330P 2KV +-10%
C951	17-5ER106M	CAP E R 10U 50V +-20%
C952	17-5DR101JSL	CAP D R 100P 50V +-5% SL
C953	17-5DR560JCH	CAP D R 56P 50V +-5% CH
C954	17-5DR471K	CAP D R 470P 50V +-10%
C955	17-5DR151JSL	CAP D R 150P 50V +-5% SL
C956	17-25BJ104K	CAP B J 0.1U 250V +-10%
C957	17-5DR473Z	CAP D R 0.047U 50V +80-20%
C958	17-5ER106M	CAP E R 10U 50V +-20%
C959	17-5DR121JSL	CAP D R 120P 50V +-5% SL
C960	17-5TR103J	CAP T R 0.01U 50V +-5%
C961	17-25BH472J	CAP B H 4700P 250 +-5%
C962	17-25BH472J	CAP B H 4700P 250V +-5%
C963	17-5ER105M	CAP E R 1U 50V +-20%
C964	17-5ER105M	CAP E R 1U 50V +-20%
C965	17-25BH273J	CAP B H 0.027U 250V +-5%
C966	17-3.5EF107M	CAP E F 100U 35V +-20%
C967	17-5DF103Z	CAP D F 0.01U 50V +80-20%
C969	17-25EF106M	CAP E F 10U 250V +-20%

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
RESISTORS		
R81	16-1/4CL102J	RES C L 1K 1/4W +-5%
R82	16-1/4CL101J	RES C L 100 1/4W +-5%
R83	16-1/4CL820J	RES C L 82 1/4W +-5%
R84	16-1/4CL1R0J	RES C L 1R0 1/4W +-5%
R85	16-1/4CL1R0J	RES C L 1R0 1/4W +-5%
R101	16-1/4CA680J	RES C A 68 1/4W +-5%
R102	16-1/4CA821J	RES C A 820 1/4W +-5%
R103	16-1/4CA222J	RES C A 2K2 1/4W +-5%
R104	16-1/4CA101J	RES C A 100 1/4W +-5%
R105	16-1/4CA100J	RES C A 10 1/4W +-5%
R106	16-1/4CA102J	RES C A 1K 1/4W +-5%
R107	16-1/4CA152J	RES C A 1K5 1/4W +-5%
R108	16-1/4CA824J	RES C A 820K 1/4W +-5%
R109	16-1/4CA274J	RES C A 270K 1/4W +-5%
R110	16-1/4CA104J	RES C A 100K 1/4W +-5%
R111	16-1/4CA154J	RES C A 150K 1/4W +-5%
R112	16-1/4CA473J	RES C A 47K 1/4W +-5%
R113	16-1/4CA470J	RES C A 47 1/4W +-5%
R114	16-1/4CA561J	RES C A 560 1/4W +-5%
R115	16-1/4CA331J	RES C A 330 1/4W +-5%
R116	16-1/4CA152J	RES C A 1K5 1/4W +-5%
R117	16-1/4CA331J	RES C A 330 1/4W +-5%
R118	16-1/4CA331J	RES C A 330 1/4W +-5%
R119	16-1/4CA562J	RES C A 5K6 1/4W +-5%
R120	16-1/4CA272J	RES C A 2K7 1/4W +-5%
R121	16-1/4CA182J	RES C A 1K8 1/4W +-5%
R122	16-1/4CA471J	RES C A 470 1/4W +-5%
R123	16-1/4CA331J	RES C A 330 1/4W +-5%
R171	16-1/4CA103J	RES C A 10K 1/4W +-5%
R172	16-1/4CA103J	RES C A 10K 1/4W +-5%
R173	16-1/4CA273J	RES C A 27K 1/4W +-5%
R201	16-1/4CA153J	RES C A 15K 1/4W +-5%
R202	16-1/4CA393J	RES C A 39K 1/4W +-5%
R203	16-1/4CA470J	RES C A 47 1/4W +-5%
R204	16-1/4CA222J	RES C A 2K2 1/4W +-5%
R205	16-1/4CA153J	RES C A 15K 1/4W +-5%
R206	16-1/4CA103J	RES C A 10K 1/4W +-5%
R211	16-1/4CS183G	RES C S 18K 1/4W +-2%
R212	16-1/4CA123J	RES C A 12K 1/4W +-5%
R213	16-1/4CA331J	RES C A 330 1/4W +-5%
R214	16-1/4CA331J	RES C A 330 1/4W +-5%
R215	16-1/4CA331J	RES C A 330 1/4W +-5%
R216	16-1/4CA152J	RES C A 1K5 1/4W +-5%
R217	16-1/4CS821G	RES C S 820 1/4W +-2%
R218	16-1/4CA102J	RES C A 1K 1/4W +-5%
R219	16-1/4CA821J	RES C A 820 1/4W +-5%


Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
R220	16-1/4CA152J	RES C A 1K5 1/4W +-5%
R221	16-1/4CA101J	RES C A 100 1/4W +-5%
R222	16-1/4CA222J	RES C A 2K2 1/4W +-5%
R225	16-1/4CA681J	RES C A 680 1/4W +-5%
R226	16-1/4CA821J	RES C A 820 1/4W +-5%
R227	16-1/4CA103J	RES C A 10K 1/4W +-5%
R228	16-1/4CA223J	RES C A 22K 1/4W +-5%
R231	16-1/4CA103J	RES C A 10K 1/4W +-5%
R232	16-1/4CA103J	RES C A 10K 1/4W +-5%
R233	16-1/4CA103J	RES C A 10K 1/4W +-5%
R234	16-1/4CA103J	RES C A 10K 1/4W +-5%
R235	16-1/4CA103J	RES C A 10K 1/4W +-5%
R236	16-1/4CA103J	RES C A 10K 1/4W +-5%
R237	16-1/4CA820J	RES C A 82 1/4W +-5%
R238	16-1/4CA102J	RES C A 1K 1/4W +-5%
R239	16-1/4CA102J	RES C A 1K 1/4W +-5%
R240	16-1/4CA104J	RES C A 100K 1/4W +-5%
R241	16-1/4CA104J	RES C A 100K 1/4W +-5%
R242	16-1/4CA682J	RES C A 6K8 1/4W +-5%
R243	16-1/4CA103J	RES C A 10K 1/4W +-5%
R244	16-1/4CA103J	RES C A 10K 1/4W +-5%
R245	16-1/4CA102J	RES C A 1K 1/4W +-5%
R246	16-1/4CA272J	RES C A 2K7 1/4W +-5%
R247	16-1/4CA182J	RES C A 1K8 1/4W +-5%
R248	16-1/4CA152J	RES C A 1K5 1/4W +-5%
R249	16-1/4CA182J	RES C A 1K8 1/4W +-5%
R251	16-1/4CA272J	RES C A 2K7 1/4W +-5%
R252	16-1/4CA564J	RES C A 560K 1/4W +-5%
R253	16-1/4CA474J	RES C A 470K 1/4W +-5%
R254	16-1/4CA102J	RES C A 1K 1/4W +-5%
R256	16-1/4CA103J	RES C A 10K 1/4W +-5%
R257	16-1/4CA474J	RES C A 470K 1/4W +-5%
R258	16-1/4CA332J	RES C A 3K3 1/4W +-5%
R259	16-1/4CA104J	RES C A 100K 1/4W +-5%
R260	16-1/4CA102J	RES C A 1K 1/4W +-5%
R261	16-1/4CA103J	RES C A 10K 1/4W +-5%
R262	16-1/4CA333J	RES C A 33K 1/4W +-5%
R263	16-1/4CA103J	RES C A 10K 1/4W +-5%
R264	16-1/4CA273J	RES C A 27K 1/4W +-5%
R265	16-1/4CA182J	RES C A 1K8 1/4W +-5%
R266	16-1/4CA563J	RES C A 56K 1/4W +-5%
R267	16-1/4CA102J	RES C A 1K 1/4W +-5%
R268	16-1/4CA102J	RES C A 1K 1/4W +-5%
R269	16-1/4CA471J	RES C A 470 1/4W +-5%
R270	16-1/4CA471J	RES C A 470 1/4W +-5%
R271	16-1/4CA472J	RES C A 4K7 1/4W +-5%
R272	16-1/4CA103J	RES C A 10K 1/4W +-5%

Note: The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF.NO.	PARTS NO.	DESCRIPTION
R273	16-1/4CA223J	RES C A 22K 1/4W +-5%
R274	16-1/4CA102J	RES C A 1K 1/4W +-5%
R275	16-1/4CA153J	RES C A 15K 1/4W +-5%
R276	16-1/4CA103J	RES C A 10K 1/4W +-5%
R277	16-1/4CA223J	RES C A 22K 1/4W +-5%
R278	16-1/4CA223J	RES C A 22K 1/4W +-5%
R281	16-1/4CA102J	RES C A 1K 1/4W +-5%
R282	16-1/4CA242J	RES C A 2K4 1/4W +-5%
R283	16-1/4CA102J	RES C A 1K 1/4W +-5%
R284	16-1/4CA681J	RES C A 680 1/4W +-5%
R285	16-1/4CA102J	RES C A 1K 1/4W +-5%
R286	16-1/4CA562J	RES C A 5K6 1/4W +-5%
R287	16-1/4CA222J	RES C A 2K2 1/4W +-5%
R288	16-1/4CA472J	RES C A 4K7 1/4W +-5%
R289	16-1/4CA472J	RES C A 4K7 1/4W +-5%
R290	16-1/4CA223J	RES C A 22K 1/4W +-5%
R291	16-1/4CA102J	RES C A 1K 1/4W +-5%
R292	16-1/4CA102J	RES C A 1K 1/4W +-5%
R293	16-1/4CA332J	RES C A 3K3 1/4W +-5%
R294	16-1/4CA750J	RES C A 75 1/4W +-5%
R295	16-1/4CA102J	RES C A 1K 1/4W +-5%
R296	16-1/4CA331J	RES C A 330 1/4W +-5%
R297	16-1/4CA681J	RES C A 680 1/4W +-5%
R298	16-1/4CA331J	RES C A 330 1/4W +-5%
R299	16-1/4CA563J	RES C A 56K 1/4W +-5%
R311	16-1/4CA153J	RES C A 15K 1/4W +-5%
R312	16-1/4CA103J	RES C A 10K 1/4W +-5%
R313	16-1/4CA4R7J	RES C A 4.7 1/4W +-5%
R314	16-1/4CA102J	RES C A 1K 1/4W +-5%
R321	16-1/4CA153J	RES C A 15K 1/4W +-5%
R322	16-1/4CA103J	RES C A 10K 1/4W +-5%
R323	16-1/4CA4R7J	RES C A 4.7 1/4W +-5%
R324	16-1/4CA102J	RES C A 1K 1/4W +-5%
R351	16-1AN681J	RES A N 680 1W +-5%
R361	16-1/4CA681J	RES C A 680 1/4W +-5%
R362	16-1/4CA332J	RES C A 3K3 1/4W +-5%
R363	16-1/4CA472J	RES C A 4K7 1/4W +-5%
R364	16-1/4CA151J	RES C A 150 1/4W +-5%
R365	16-1/4CA102J	RES C A 1K 1/4W +-5%
R366	16-1/4CA183J	RES C A 18K 1/4W +-5%
R367	16-1/4CA103J	RES C A 10K 1/4W +-5%
R368	16-1/4CA331J	RES C A 330 1/4W +-5%
R369	16-1/4CA223J	RES C A 22K 1/4W +-5%
R371	16-1/4CA334J	RES C A 330K 1/4W +-5%
R372	16-1/4CA224J	RES C A 220K 1/4W +-5%
R373	16-1/4CA223J	RES C A 22K 1/4W +-5%
R374	16-1/4CA473J	RES C A 47K 1/4W +-5%

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

REF.NO.	PARTS NO.	DESCRIPTION
R375	16-1/4CA102J	RES C A 1K 1/4W +-5%
R376	16-1/4CA103J	RES C A 10K 1/4W +-5%
R381	16-1/4CA332J	RES C A 3K3 1/4W +-5%
R382	16-1/4CA562J	RES C A 5K6 1/4W +-5%
R383	16-1/4CA223J	RES C A 22K 1/4W +-5%
R384	16-1/4CA183J	RES C A 18K 1/4W +-5%
R385	16-1/4CA392J	RES C A 3K9 1/4W +-5%
R386	16-1/4CA681J	RES C A 680 1/4W +-5%
R387	16-1/4CA332J	RES C A 3K3 1/4W +-5%
R401	16-1/4CA682J	RES C A 6K8 1/4W +-5%
R402	16-1/4CA222J	RES C A 2K2 1/4W +-5%
R403	16-1/4CA102J	RES C A 1K 1/4W +-5%
R412	16-1/4CA122J	RES C A 1K2 1/4W +-5%
R413	16-1/2SS224K	RES S S 220K 1/2W +-10%
R414	16-1/2SS224K	RES S S 220K 1/2W +-10%
R415	16-1/2SS224K	RES S S 220K 1/2W +-10%
R416	16-1/4CA562J	RES C A 5K6 1/4W +-5%
R417	16-1/4CA104J	RES C A 100K 1/4W +-5%
R418	16-1/4CA103J	RES C A 10K 1/4W +-5%
R419	16-1/4CA103J	RES C A 10K 1/4W +-5%
R421	16-1/4CA823J	RES C A 82K 1/4W +-5%
R422	16-1/4CA683J	RES C A 68K 1/4W +-5%
R423	16-1/4CA333J	RES C A 33K 1/4W +-5%
R424	16-1/4CA334J	RES C A 330K 1/4W +-5%
R425	16-1/4CA681J	RES C A 680 1/4W +-5%
R426	16-1/4CA102J	RES C A 1K 1/4W +-5%
R427	16-1/4CA681J	RES C A 680 1/4W +-5%
 R431	16-1/4AN560J	RES A N 56 1/4W +-5%
 R432	16-1/4CA222J	RES C A 2K2 1/4W +-5%
 R433	16-1/4CS123G	RES C S 10K 1/4W +-2%
R434	16-1/4CA122J	RES C A 1K2 1/4W +-5%
R435	16-1/4CS472G	RES C S 4K7 1/4W +-2%
R436	16-1/4CS103G	RES C S 10K 1/4W +-2%
R437	16-1/4CA103J	RES C A 10K 1/4W +-5%
R438	16-1/4CA391J	RES C A 390 1/4W +-5%
R441	16-1/4CA220J	RES C A 22 1/4W +-5%
R442	16-1/4CA682J	RES C A 6K8 1/4W +-5%
R443	16-1/4CA563J	RES C A 56K 1/4W +-5%
R444	16-1/4CA152J	RES C A 1K5 1/4W +-5%
R445	16-1/4CA183J	RES C A 18K 1/4W +-5%
R451	16-1/4CA221J	RES C A 220 1/4W +-5%
 R452	16-1AN682J	RES A N 6K8 1W +-5%
 R453	16-2AN152J	RES A N 1K5 2W +-5%
R461	16-1/4CA225J	RES C A 2M2 1/4W +-5%
R462	16-1/4CA104J	RES C A 100K 1/4W +-5%
R463	16-1/4CA105J	RES C A 1M 1/4W +-5%
R464	16-1/4CA224J	RES C A 220K 1/4W +-5%

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
R465	16-1/4CA100J	RES C A 10 1/4W +5%
R466	16-1/4CA560J	RES C A 56 1/4W +5%
R467	16-1ANR56J	RES A N 0.56 1W +5%
R469	16-1/4CA103J	RES C A 10K 1/4W +5%
R470	16-1/4CA154J	RES C A 150K 1/4W +5%
R471	16-1/4CA332J	RES C A 3K3 1/4W +5%
R472	16-1/4CA392J	RES C A 3K9 1/4W +5%
R473	16-1/4CA333J	RES C A 33K 1/4W +5%
R474	16-1AN331J	RES A N 330 1W +5%
R475	16-2AN391J	RES A N 390 2W +5%
R476	16-2AN391J	RES A N 390 2W +5%
△ R481	16-1/2SS222K	RES S S 2K2 1/2W +10%
△ R482	16-1/2SS474K	RES S S 470K 1/2W +10%
△ R483	16-1/2SS474K	RES S S 470K 1/2W +10%
△ R484	16-1/2SS474K	RES S S 470K 1/2W +10%
R485	16-1/4AN102J	RES A N 1K 1/4W +5%
R486	16-1/2AN100J	RES A N 10 1/2W +5%
△ R487	16-2AN6R8J	RES A N 6.8 2W +5%
R488	16-1AN1R8J	RES A N 1.8 1W +5%
R489	16-1/4AN100J	RES A N 10 1/4W +5%
R490	16-1AN272J	RES A N 2K7 1W +5%
R491	16-1/4CA682J	RES C A 6K8 1/4W +5%
R501	16-1/4CS821G	RES C S 820 1/4W +2%
R502	16-1/4CA331J	RES C A 330 1/4W +5%
R503	16-1/4CA222J	RES C A 2K2 1/4W +5%
R504	16-1/4CA681J	RES C A 680 1/4W +5%
R505	16-1/4CA152J	RES C A 1K5 1/4W +5%
R506	16-1/4CA331J	RES C A 330 1/4W +5%
R507	16-1/4CA152J	RES C A 1K5 1/4W +5%
R508	16-1/4CA102J	RES C A 1K 1/4W +5%
R509	16-1/4CA820J	RES C A 82 1/4W +5%
R510	16-1/4CA102J	RES C A 1K 1/4W +5%
R511	16-1/4CA223J	RES C A 22K 1/4W +5%
R512	16-1/4CA332J	RES C A 3K3 1/4W +5%
R513	16-1/4CA122J	RES C A 1K2 1/4W +5%
R521	16-1/4CA123J	RES C A 12K 1/4W +5%
R522	16-1/4CA105J	RES C A 1M 1/4W +5%
R523	16-1/4CA102J	RES C A 1K 1/4W +5%
R524	16-1/4CA103J	RES C A 10K 1/4W +5%
R525	16-1/4CS752J	RES C S 7K5 1/4W +5%
R531	16-1/4CA181J	RES C A 180 1/4W +5%
R532	16-1/4CA472J	RES C A 4K7 1/4W +5%
R533	16-1/4CA181J	RES C A 180 1/4W +5%
R534	16-1/4CA472J	RES C A 4K7 1/4W +5%
R535	16-1/4CA181J	RES C A 180 1/4W +5%
R536	16-1/4CA472J	RES C A 4K7 1/4W +5%
R541	16-1/4CA682J	RES C A 6K8 1/4W +5%

Note: The components identified by shading and mark △ are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
R542	16-1/4CA682J	RES C A 6K8 1/4W +5%
R543	16-1/4CA152J	RES C A 1K5 1/4W +5%
R544	16-1/4CA682J	RES C A 6K8 1/4W +5%
R545	16-1/4CA682J	RES C A 6K8 1/4W +5%
R546	16-1/4CA152J	RES C A 1K5 1/4W +5%
R547	16-1/4CA682J	RES C A 6K8 1/4W +5%
R548	16-1/4CA682J	RES C A 6K8 1/4W +5%
R549	16-1/4CA152J	RES C A 1K5 1/4W +5%
R550	16-1/4CA101J	RES C A 100 1/4W +5%
R601	16-1/4CA750J	RES C A 75 1/4W +5%
R602	16-1/4CA750J	RES C A 75 1/4W +5%
R603	16-1/4CA102J	RES C A 1K 1/4W +5%
R604	16-1/4CA473J	RES C A 47K 1/4W +5%
R605	16-1/4CA102J	RES C A 1K 1/4W +5%
R606	16-1/4CA473J	RES C A 47K 1/4W +5%
R607	16-1/4CA102J	RES C A 1K 1/4W +5%
R608	16-1/4CA473J	RES C A 47K 1/4W +5%
R609	16-1/4CA102J	RES C A 1K 1/4W +5%
R610	16-1/4CA473J	RES C A 47K 1/4W +5%
R611	16-1/4CR102J	RES C R 1K 1/4W +5%
R612	16-1/4CR473J	RES C R 47K 1/4W +5%
R613	16-1/4CR102J	RES C R 1K 1/4W +5%
R614	16-1/4CR473J	RES C R 47K 1/4W +5%
R615	16-1/4CR750J	RES C R 75 1/4W +5%
R616	16-1/4CA103J	RES C A 10K 1/4W +5%
R617	16-1/4CR103J	RES C R 10K 1/4W +5%
R618	16-1/4CR102J	RES C R 1K 1/4W +5%
R619	16-1/4AN220J	RES A N 22 1/4W +5%
R620	16-1/4AN220J	RES A N 22 1/4W +5%
R621	16-1/4CR331J	RES C R 330 1/4W +5%
R622	16-1/4CR102J	RES C R 1K 1/4W +5%
R623	16-1/4CA750J	RES C A 75 1/4W +5%
R624	16-1/4AN220J	RES A N 22 1/4W +5%
R625	16-1/4CA471J	RES C A 470 1/4W +5%
R626	16-1/4CR102J	RES C R 1K 1/4W +5%
R627	16-1/4CA750J	RES C A 75 1/4W +5%
R628	16-1/4CR331J	RES C R 330 1/4W +5%
R629	16-1/4AN220J	RES A N 22 1/4W +5%
R630	16-1/4CA4R7J	RES C A 4.7 1/4W +5%
R631	16-1/4CA4R7J	RES C A 4.7 1/4W +5%
R632	16-1/4CA102J	RES C A 1K 1/4W +5%
R633	16-1/4CR102J	RES C R 1K 1/4W +5%
R634	16-1/4CR750J	RES C R 75 1/4W +5%
R635	16-1/4CR750J	RES C R 75 1/4W +5%
R636	16-1/4CR223J	RES C R 22K 1/4W +5%
R637	16-1/4CR273J	RES C R 27K 1/4W +5%
R638	16-1/4CR223J	RES C R 22K 1/4W +5%

Note: The components identified by shading and mark △ are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
R639	16-1/4CR273J	RES C R 27K 1/4W +5%
R640	16-1/4CA222J	RES C A 2K2 1/4W +5%
R641	16-1/4CA272J	RES C A 2K7 1/4W +5%
R642	16-1/4CA222J	RES C A 2K2 1/4W +5%
R643	16-1/4CA272J	RES C A 2K7 1/4W +5%
R644	16-1/4CR223J	RES C R 22K 1/4W +5%
R645	16-1/4CR223J	RES C R 22K 1/4W +5%
R646	16-1/4CR223J	RES C R 22K 1/4W +5%
R647	16-1/4CA103J	RES C A 10K 1/4W +5%
R648	16-1/4CA103J	RES C A 10K 1/4W +5%
R649	16-1/4CR103J	RES C R 10K 1/4W +5%
R650	16-1/4CA102J	RES C A 1K 1/4W +5%
R651	16-1/4CR102J	RES C R 1K 1/4W +5%
R652	16-1/4CA102J	RES C A 1K 1/4W +5%
R653	16-1/4CR102J	RES C R 1K 1/4W +5%
R654	16-1/4CR102J	RES C R 1K 1/4W +5%
R655	16-1/4CA102J	RES C A 1K 1/4W +5%
R656	16-1/4CR102J	RES C R 1K 1/4W +5%
R657	16-1/4CA102J	RES C A 1K 1/4W +5%
R658	16-1/4CA102J	RES C A 1K 1/4W +5%
R659	16-1/4CA272J	RES C A 2K7 1/4W +5%
R660	16-1/4CA272J	RES C A 2K7 1/4W +5%
R661	16-1/4CA222J	RES C A 2K2 1/4W +5%
R662	16-1/4CA222J	RES C A 2K2 1/4W +5%
R663	16-1/4CA102J	RES C A 1K 1/4W +5%
R664	16-1/4CA102J	RES C A 1K 1/4W +5%
R665	16-1/4CA821J	RES C A 820 1/4W +5%
R666	16-1/4CA471J	RES C A 470 1/4W +5%
R667	16-1/4CR333J	RES C R 33K 1/4W +5%
R668	16-1/4CA471J	RES C A 470 1/4W +5%
R669	16-1/4CA821J	RES C A 820 1/4W +5%
R670	16-1/4AN220J	RES A N 22 1/4W +5%
R671	16-1/4CA681J	RES C A 680 1/4W +5%
R672	16-1/4CR681J	RES C R 680 1/4W +5%
R673	16-1/4CR103J	RES C R 10K 1/4W +5%
R674	16-1/4CR223J	RES C R 22K 1/4W +5%
R675	16-1/4CR223J	RES C R 22K 1/4W +5%
R676	16-1/4CR153J	RES C R 15K 1/4W +5%
R677	16-1/4CR153J	RES C R 15K 1/4W +5%
R678	16-1/4CR103J	RES C R 10K 1/4W +5%
R679	16-1/4CR104J	RES C R 100K 1/4W +5%
R680	16-1/4CA102J	RES C A 1K 1/4W +5%
R681	16-1/4CR223J	RES C R 22K 1/4W +5%
R682	16-1/4CR183J	RES C R 18K 1/4W +5%
R683	16-1/4CR103J	RES C R 10K 1/4W +5%
R684	16-1/4CR103J	RES C R 10K 1/4W +5%
R685	16-1/4CR103J	RES C R 10K 1/4W +5%

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.


REF.NO.	PARTS NO.	DESCRIPTION
R686	16-1/4CR123J	RES C R 12K 1/4W +5%
R687	16-1/4CR561J	RES C R 560 1/4W +5%
R688	16-1/4CR102J	RES C R 1K 1/4W +5%
R689	16-1/4CR561J	RES C R 560 1/4W +5%
R690	16-1/4CA563J	RES C A 56K 1/4W +5%
R691	16-1/4CR473J	RES C R 47K 1/4W +5%
R692	16-1/4CR333J	RES C R 33K 1/4W +5%
R693	16-1/4CR103J	RES C R 10K 1/4W +5%
R694	16-1/4CA473J	RES C A 47K 1/4W +5%
R695	16-1/4CA473J	RES C A 47K 1/4W +5%
R696	16-1/4CA473J	RES C A 47K 1/4W +5%
R697	16-1/4CA473J	RES C A 47K 1/4W +5%
R698	16-1/4CR223J	RES C R 22K 1/4W +5%
R699	16-1/4CR103J	RES C R 10K 1/4W +5%
R701	16-1/4CA102J	RES C A 1K 1/4W +5%
R702	16-1/4CA102J	RES C A 1K 1/4W +5%
R703	16-1/4CA102J	RES C A 1K 1/4W +5%
R704	16-1/4CA102J	RES C A 1K 1/4W +5%
R705	16-1/4CA101J	RES C A 100 1/4W +5%
R706	16-1/4CA223J	RES C A 22K 1/4W +5%
R707	16-1/4CA101J	RES C A 100 1/4W +5%
R708	16-1/4CA223J	RES C A 22K 1/4W +5%
R709	16-1/4CA101J	RES C A 100 1/4W +5%
R710	16-1/4CA223J	RES C A 22K 1/4W +5%
R711	16-1/4CA223J	RES C A 22K 1/4W +5%
R712	16-1/4CA223J	RES C A 22K 1/4W +5%
R713	16-1/4CA223J	RES C A 22K 1/4W +5%
R714	16-1/4CA223J	RES C A 22K 1/4W +5%
R715	16-1/4CA223J	RES C A 22K 1/4W +5%
R716	16-1/4CA223J	RES C A 22K 1/4W +5%
R717	16-1/4CA223J	RES C A 22K 1/4W +5%
R718	16-1/4CA223J	RES C A 22K 1/4W +5%
R719	16-1/4CA223J	RES C A 22K 1/4W +5%
R720	16-1/4CA223J	RES C A 22K 1/4W +5%
R721	16-1/4CA103J	RES C A 10K 1/4W +5%
R722	16-1/4CA562J	RES C A 5K6 1/4W +5%
R723	16-1/4CA103J	RES C A 10K 1/4W +5%
R724	16-1/4CA562J	RES C A 5K6 1/4W +5%
R725	16-1/4CA472J	RES C A 4K7 1/4W +5%
R726	16-1/4CA473J	RES C A 47K 1/4W +5%
R727	16-1/4CA473J	RES C A 47K 1/4W +5%
R728	16-1/4CA473J	RES C A 47K 1/4W +5%
R729	16-1/4CA473J	RES C A 47K 1/4W +5%
R730	16-1/4CR223J	RES C R 22K 1/4W +5%
R731	16-1/4CR103J	RES C R 10K 1/4W +5%
R732	16-1/4CR104J	RES C R 100K 1/4W +5%
R733	16-1/4CR103J	RES C R 10K 1/4W +5%

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

REF.NO.	PARTS NO.	DESCRIPTION
R734	16-1/4CR103J	RES C R 10K 1/4W +-5%
R735	16-1/4CR473J	RES C R 47K 1/4W +-5%
R736	16-1/4CR104J	RES C R 100K 1/4W +-5%
R737	16-1/4CA683J	RES C A 68K 1/4W +-5%
R738	16-1/4CA183J	RES C A 18K 1/4W +-5%
R739	16-1/4CA472J	RES C A 4K7 1/4W +-5%
R740	16-1/4CA222J	RES C A 2K2 1/4W +-5%
R741	16-1/4CA100J	RES C A 10 1/4W +-5%
R742	16-1/4CA102J	RES C A 1K 1/4W +-5%
R743	16-1/4CA223J	RES C A 22K 1/4W +-5%
R744	16-1/4CA102J	RES C A 1K 1/4W +-5%
R745	16-1/4CA223J	RES C A 22K 1/4W +-5%
R746	16-1/4CA102J	RES C A 1K 1/4W +-5%
R747	16-1/4CA223J	RES C A 22K 1/4W +-5%
R748	16-1/4CA102J	RES C A 1K 1/4W +-5%
R749	16-1/4CA472J	RES C A 4K7 1/4W +-5%
R750	16-1/4CA104J	RES C A 100K 1/4W +-5%
R751	16-1/4CA681J	RES C A 680 1/4W +-5%
R752	16-1/4CR472J	RES C R 4K7 1/4W +-5%
R753	16-1/4CA822J	RES C A 8K2 1/4W +-5%
R754	16-1/4CR183J	RES C R 18K 1/4W +-5%
R755	16-1AN183J	RES A N 18K 1W +-5%
R756	16-2AN103J	RES A N 10K 2W +-5%
R757	16-1/4CA223J	RES C A 22K 1/4W +-5%
R758	16-1/4CA103J	RES C A 10K 1/4W +-5%
R759	16-1/4CA103J	RES C A 10K 1/4W +-5%
R760	16-1/4CA103J	RES C A 10K 1/4W +-5%
R761	16-1/4CA102J	RES C A 1K 1/4W +-5%
R762	16-1/4CA223J	RES C A 22K 1/4W +-5%
R763	16-1/4CA103J	RES C A 10K 1/4W +-5%
R764	16-1/4CA223J	RES C A 22K 1/4W +-5%
R765	16-1/4CA103J	RES C A 10K 1/4W +-5%
R766	16-1/4CA683J	RES C A 68K 1/4W +-5%
R767	16-1/4CA222J	RES C A 2K2 1/4W +-5%
R768	16-1/4CR393J	RES C R 39K 1/4W +-5%
R769	16-1/4CR103J	RES C R 10K 1/4W +-5%
R770	16-1/4CA221J	RES C A 220 1/4W +-5%
R771	16-1/4CR473J	RES C R 47K 1/4W +-5%
R772	16-1/4CA223J	RES C A 22K 1/4W +-5%
R773	16-1/4CA473J	RES C A 47K 1/4W +-5%
R774	16-1/4CA822J	RES C A 8K2 1/4W +-5%
R775	16-1/4CA223J	RES C A 22K 1/4W +-5%
R776	16-1/4CA473J	RES C A 47K 1/4W +-5%
R777	16-1/4CA473J	RES C A 47K 1/4W +-5%
R778	16-1/4CA103J	RES C A 10K 1/4W +-5%
R779	16-1/4CA123J	RES C A 12K 1/4W +-5%
R780	16-1/4CA562J	RES C A 5K6 1/4W +-5%

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

REF.NO.	PARTS NO.	DESCRIPTION
R781	16-1/4CA333J	RES C A 33K 1/4W +-5%
R782	16-1/4CR100J	RES C R 10 1/4W +-5%
R783	16-1/4CR473J	RES C R 47K 1/4W +-5%
R784	16-1/4CR473J	RES C R 47K 1/4W +-5%
R785	16-1/4CR223J	RES C R 22K 1/4W +-5%
R786	16-1/4CR103J	RES C R 10K 1/4W +-5%
R787	16-1/4CA103J	RES C A 10K 1/4W +-5%
R788	16-1/4CA472J	RES C A 4K7 1/4W +-5%
R789	16-1/4CA473J	RES C A 47K 1/4W +-5%
R790	16-1/4CA473J	RES C A 47K 1/4W +-5%
R791	16-1/4CA103J	RES C A 10K 1/4W +-5%
R792	16-1/4CA103J	RES C A 10K 1/4W +-5%
R793	16-1/4CR223J	RES C R 22K 1/4W +-5%
R794	16-1/4CR103J	RES C R 10K 1/4W +-5%
R795	16-1/4CA103J	RES C A 10K 1/4W +-5%
R796	16-1/4CA472J	RES C A 4K7 1/4W +-5%
R801	16-1/2SS335K	RES S S 3M3 1/2W +-10%
R811	16-1047	RES C M 1 OHM +-10%
R812	16-1/2CS224J	RES C S 220K 1/2W +-5%
R821	16-1AN680J	RES A N 68 1W +-5%
R831	16-1/4CS221J	RES C S 220 1/4W +-5%
R832	16-1/4CS122G	RES C S 1K2 1/4W +-12%
R833	16-1/4CS123G	RES C S 12K 1/4W +-12%
R834	16-1/4CS392J	RES C SML 1/4W 3K92 +-5%
R835	16-1/4CS103J	RES C S 10K 1/4W +-5%
R836	16-1/2CS154J	RES C S 150K 1/2W +-5%
R837	16-1AN101J	RES A N 100 1W +-5%
R841	16-3AN562K	RES A N 5K6 3W +-10%
R844	16-1ANR47J	RES A N 0.47 1W +-5%
R845	16-1/4CS104J	RES C S 100K 1/4W +-5%
R846	16-1/4CS221J	RES C S 220 1/4W +-5%
R847	16-1038	RES CM 5W 8.2 OHM +-10%
R861	16-1ANR22J	RES A N 0.22 1W +-5%
R862	16-3AN1R0J	RES A N 1 3W +-5%
R901	16-1/4CA271J	RES C A 270 1/4W +-5%
R902	16-1/4CA102J	RES C A 1K 1/4W +-5%
R903	16-1/4CA820J	RES C A 82 1/4W +-5%
R904	16-1034	RES FUSIBLE 1/4W 100Ω +-5%
R905	16-1/4CA222J	RES C A 2K2 1/4W +-5%
R906	16-1/4CA821J	RES C A 820 1/4W +-5%
R907	16-1/4CA222J	RES C A 2K2 1/4W +-5%
R908	16-1/4CA821J	RES C A 820 1/4W +-5%
R909	16-1/4CA222J	RES C A 2K2 1/4W +-5%
R910	16-1/4CA821J	RES C A 820 1/4W +-5%
R911	16-1AN683J	RES A N 68K 1W +-5%
R912	16-1/2SS222K	RES S S 2K2 1/2W +-10%
R913	16-1036	RES FUSIBLE 1/4W 470 Ω +-5%

Note: The components identified by shading and mark  are critical for safety. Replace only with part number specified.

	REF.NO.	PARTS NO.	DESCRIPTION
	R914	16-2AN183J	RES A N 18K 2W +5%
△	R915	16-1AN683J	RES A N 68K 1W +5%
△	R916	16-1/2SS222K	RES S S 2K2 1/2W +10%
△	R917	16-1036	RES FUSIBLE 1/4W 470 Ω +5%
△	R918	16-2AN183J	RES A N 18K 2W +5%
△	R919	16-1AN683J	RES A N 68K 1W +5%
△	R920	16-1/2SS222K	RES S S 2K2 1/2W +10%
△	R921	16-1036	RES FUSIBLE 1/4W 470 Ω +5%
△	R922	16-2AN183J	RES A N 18K 2W +5%
	R923	16-1/4CA102J	RES C A 1K 1/4W +5%
	R924	16-1/4CA102J	RES C A 1K 1/4W +5%
	R925	16-1/4CA102J	RES C A 1K 1/4W +5%
	R926	16-1/4CA102J	RES C A 1K 1/4W +5%
	R951	16-1/4CA393J	RES C A 39K 1/4W +5%
	R952	16-1/4CA224J	RES C A 220K 1/4W +5%
	R953	16-1/4CA221J	RES C A 220 1/4W +5%
	R954	16-1/4CA561J	RES C A 560 1/4W +5%
	R955	16-1/4CA102J	RES C A 1K 1/4W +5%
	R956	16-1/4CA473J	RES C A 47K 1/4W +5%
	R957	16-1/4CA682J	RES C A 6K8 1/4W +5%
	R958	16-1/4CA122J	RES C A 1K2 1/4W +5%
	R959	16-1/4CA331J	RES C A 330 1/4W +5%
	R960	16-1/4CA224J	RES C A 220K 1/4W +5%
	R961	16-1/4CA393J	RES C A 39K 1/4W +5%
	R962	16-1/4CA182J	RES C A 1K8 1/4W +5%
	R963	16-1/4CA561J	RES C A 560 1/4W +5%
	R964	16-1/4CA104J	RES C A 100K 1/4W +5%
	R965	16-1/4CA104J	RES C A 100K 1/4W +5%
	R966	16-1/4CA561J	RES C A 560 1/4W +5%
	R967	16-1/4CA561J	RES C A 560 1/4W +5%
	R968	16-1/4CA561J	RES C A 560 1/4W +5%
	R969	16-1/4CA393J	RES C A 39K 1/4W +5%
	R970	16-1/4CA153J	RES C A 15K 1/4W +5%
	R971	16-1/4CA221J	RES C A 220 1/4W +5%
	R972	16-1/4CA221J	RES C A 220 1/4W +5%
	R973	16-1/4CA333J	RES C A 33K 1/4W +5%
	R974	16-1/4CA270J	RES C A 27 1/4W +5%
	R975	16-1/4CA270J	RES C A 27 1/4W +5%
	R976	16-1/4CA561J	RES C A 560 1/4W +5%
	R977	16-1/4CA104J	RES C A 100K 1/4W +5%
	R978	16-1/4CA104J	RES C A 100K 1/4W +5%
	R979	16-1/4CA561J	RES C A 560 1/4W +5%
	R980	16-1/4CA273J	RES C A 27K 1/4W +5%
	R981	16-1AN330J	RES A N 33 1W +5%
	R982	16-1AN330J	RES A N 33 1W +5%
	R983	16-1/4CA2R2J	RES C A 22 1/4W +5%
	R984	16-1/4CA2R2J	RES C A 2.2 1/4W +5%

Note: The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

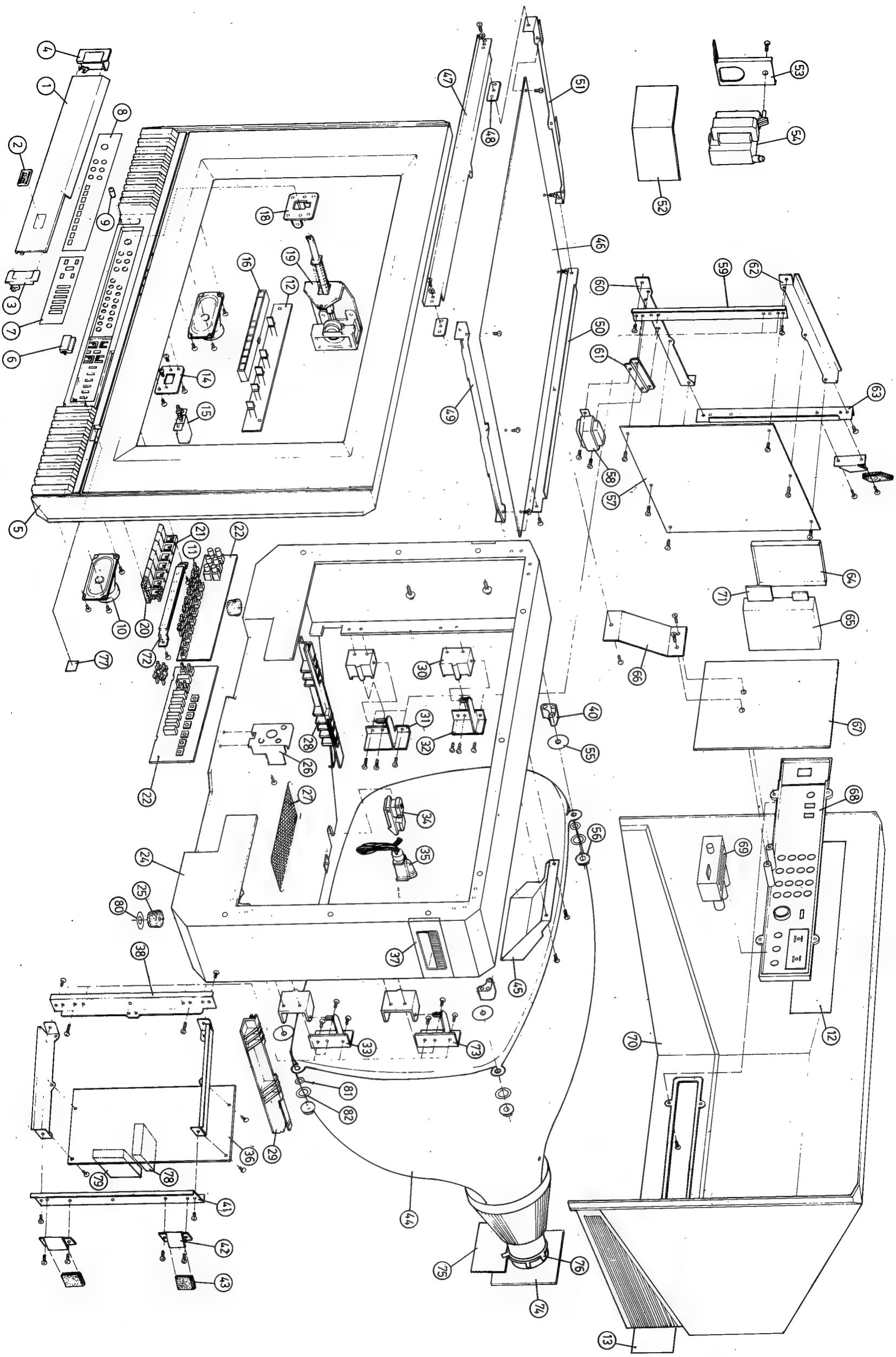
REF.NO.	PARTS NO.	DESCRIPTION
R985	16-1AN391J	RES A N 390 1W +5%
R986	16-1/4CA271J	RES C A 270 1/4W +5%
R6100	16-1/4CR222J	RES C R 2K2 1/4W +5%
R7101	16-1/4CA101J	RES C A 100 1/4W +5%
R7102	16-1/4CA101J	RES C A 100 1/4W +5%
R7103	16-1/4CA101J	RES C A 100 1/4W +5%
R7104	16-1/4CA101J	RES C A 100 1/4W +5%
R7105	16-1/4CA101J	RES C A 100 1/4W +5%
R7106	16-1/4CA101J	RES C A 100 1/4W +5%
R7107	16-1/4CA103J	RES C A 10K 1/4W +5%
R7108	16-1/4CA103J	RES C A 10K 1/4W +5%
R7109	16-1/4CA103J	RES C A 10K 1/4W +5%
R7110	16-1/4CA103J	RES C A 10K 1/4W +5%
R7111	16-1/4CA103J	RES C A 10K 1/4W +5%
R7112	16-1/4CA101J	RES C A 100 1/4W +5%
R7113	16-1/4CA101J	RES C A 100 1/4W +5%
R7114	16-1/4CA681J	RES C A 680 1/4W +5%
R7115	16-1/4CA223J	RES C A 22K 1/4W +5%
R7116	16-1/4CA682J	RES C A 6K8 1/4W +5%
R7117	16-1/4CA222J	RES C A 2K2 1/4W +5%
R7118	16-1/4CR102J	RES C R 1K 1/4W +5%
R7119	16-1/4CA222J	RES C A 2K2 1/4W +5%
R7120	16-1/4CR223J	RES C R 22K 1/4W +5%
R7121	16-1/4CR102J	RES C R 1K 1/4W +5%
R7122	16-1/4CR562J	RES C R 5K6 1/4W +5%
R7123	16-1/4CA102J	RES C A 1K 1/4W +5%
R7124	16-1/4CA102J	RES C A 1K 1/4W +5%
R7125	16-1/4CR221J	RES C R 220 1/4W +5%
R7126	16-1/4CA101J	RES C A 100 1/4W +5%
R7127	16-1/4CR222J	RES C R 2K2 1/4W +5%
R7128	16-1/4CR221J	RES C R 220 1/4W +5%
R7129	16-1/4CA101J	RES C A 100 1/4W +5%
R7130	16-1/4CA222J	RES C A 2K2 1/4W +5%
R7131	16-1/4CR221J	RES C R 220 1/4W +5%
R7132	16-1/4CA101J	RES C A 100 1/4W +5%
R7133	16-1/4CA222J	RES C A 2K2 1/4W +5%
R7134	16-1/4CR221J	RES C R 220 1/4W +5%
R7135	16-1/4CA101J	RES C A 100 1/4W +5%
R7136	16-1/4CA222J	RES C A 2K2 1/4W +5%
R7137	16-1/4CA471J	RES C A 470 1/4W +5%
R7138	16-1/4CA101J	RES C A 100 1/4W +5%
R7139	16-1/4CA101J	RES C A 100 1/4W +5%
R7140	16-1/4CA101J	RES C A 100 1/4W +5%
R7141	16-1/4CA101J	RES C A 100 1/4W +5%
R7142	16-1/4CA101J	RES C A 100 1/4W +5%
R7143	16-1/4CA102J	RES C A 1K 1/4W +5%
R7144	16-1/4CR1R0J	RES C R 1 1/4W +5%

Note: The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

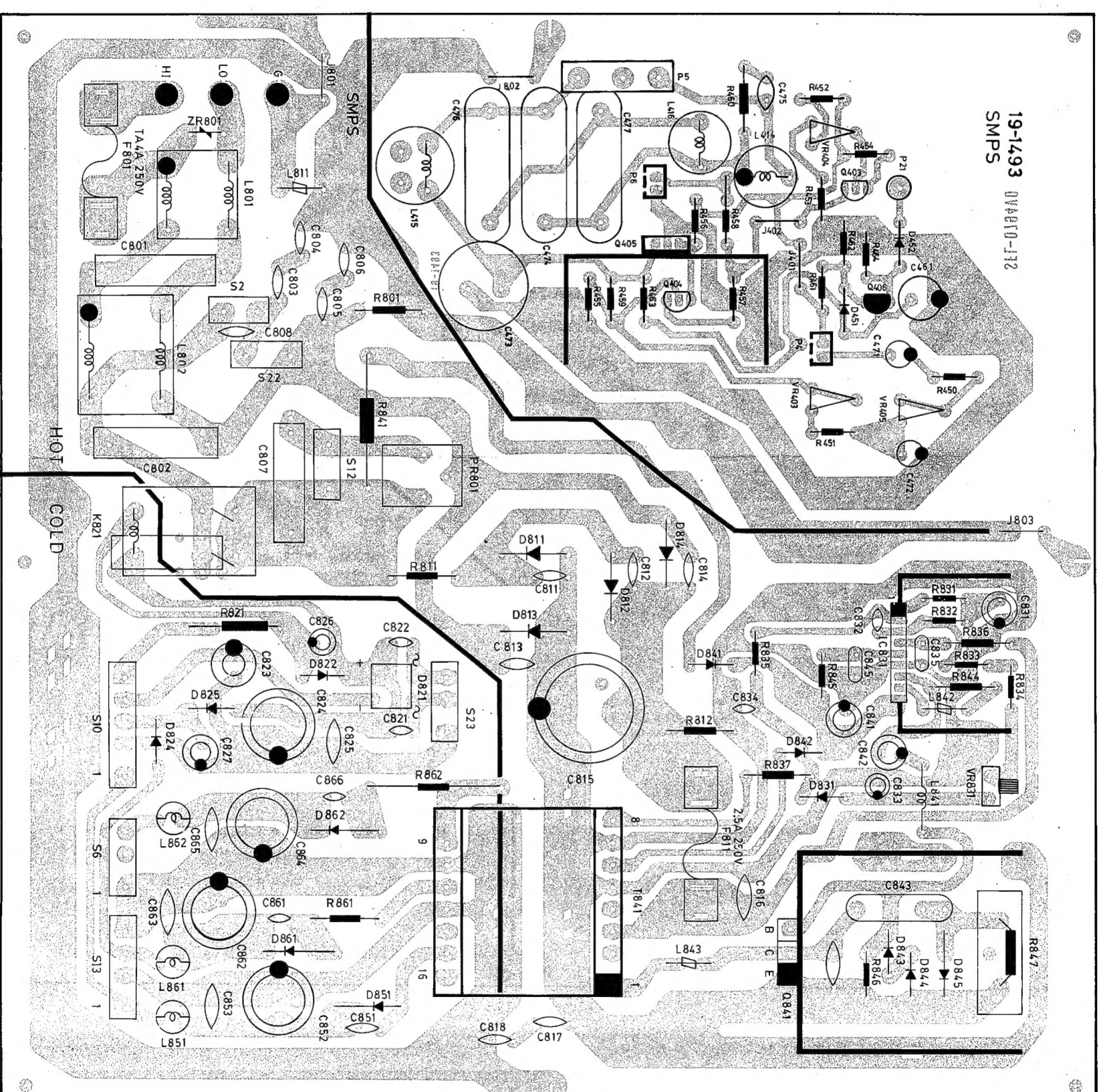
REF.NO.	PARTS NO.	DESCRIPTION
R7147	16-1/4CR562J	RES C R 5K6 1/4W +-5%
R7148	16-1/4CR223J	RES C R 22K 1/4W +-5%
R7149	16-1/4CR392J	RES C R 3K9 1/4W +-5%
R7150	16-1/4CR563J	RES C R 56K 1/4W +-5%
R7153	16-1/4CR123J	RES C R 12K 1/4W +-5%
R7154	16-1/4CR273J	RES C R 27K 1/4W +-5%
R7155	16-1/4CR103J	RES C R 10K 1/4W +-5%
R7156	16-1/4CR223J	RES C R 22K 1/4W +-5%
R7157	16-1/4CR223J	RES C R 22K 1/4W +-5%
R7158	16-1/4CR822J	RES C R 8K2 1/4W +-5%
R7159	16-1/4CR272J	RES C R 2K7 1/4W +-5%
R7160	16-1/4CR823J	RES C R 82K 1/4W +-5%
R7161	16-1/4CR152J	RES C R 1K5 1/4W +-5%
R7162	16-1/4CR333J	RES C R 33K 1/4W +-5%
R7163	16-1/4CR223J	RES C R 22K 1/4W +-5%
R7164	16-1/4CR332J	RES C R 3K3 1/4W +-5%
R7165	16-1/4CR333J	RES C R 33K 1/4W +-5%
R7166	16-1/4CR223J	RES C R 22K 1/4W +-5%
R7167	16-1/4CR332J	RES C R 3K3 1/4W +-5%
R7171	16-1/4CA332J	RES C A 3K3 1/4W +-5%
△ R7172	16-1/4CS151J	RES C S 150 1/2W +-10%
R7173	16-1/4CA750J	RES C A 75 1/4W +-5%
R7174	16-1/4CA101J	RES C A 100 1/4W +-5%
R7175	16-1/4CA472J	RES C A 4K7 1/4W +-5%
R7176	16-1/4CA562J	RES C A 5K6 1/4W +-5%
R7177	16-1/4CA333J	RES C A 33K 1/4W +-5%
R7178	16-1/4CA822J	RES C A 8K2 1/4W +-5%
R7179	16-1/4CA472J	RES C A 4K7 1/4W +-5%
R7180	16-1/4CA152J	RES C A 1K5 1/4W +-5%
R7181	16-1/4CA561J	RES C A 560 1/4W +-5%
R7182	16-1/4CA154J	RES C A 150K 1/4W +-5%
R7183	16-1/4CA331J	RES C A 330 1/4W +-5%
R7184	16-1/4CA152J	RES C A 1K5 1/4W +-5%
R7185	16-1/4CA472J	RES C A 4K7 1/4W +-5%
R7186	16-1/4CA681J	RES C A 680 1/4W +-5%
R7187	16-1/4CA103J	RES C A 10K 1/4W +-5%
R7188	16-1/4CA154J	RES C A 150K 1/4W +-5%
R7189	16-1/4CA102J	RES C A 1K 1/4W +-5%
R7190	16-1/4CA102J	RES C A 1K 1/4W +-5%
R7191	16-1/4CA681J	RES C A 680 1/4W +-5%
R7192	16-1/4CA681J	RES C A 680 1/4W +-5%
R7193	16-1/4CA103J	RES C A 10K 1/4W +-5%
R7194	16-1/4CA272J	RES C A 2K7 1/4W +-5%
R7195	16-1/4CA272J	RES C A 2K7 1/4W +-5%
△ R7196	16-1/2CS820J	RES C S 82 1/2W +-10%
R7197	16-1/4CA681J	RES C A 680 1/4W +-5%
R7198	16-1/4CA473J	RES C A 47K 1/4W +-5%

Note: The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

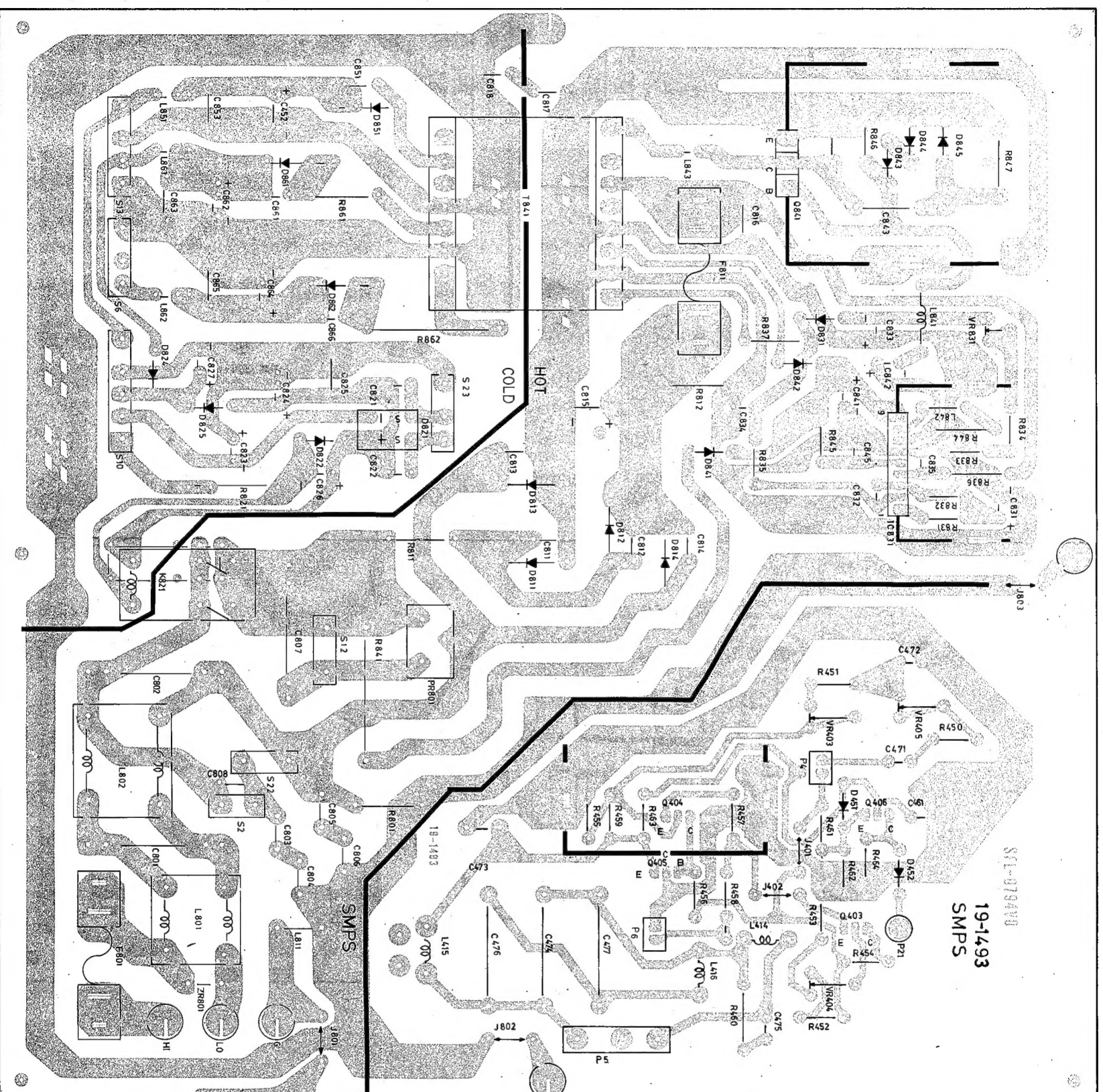
ASSEMBLY DIAGRAM



PCB PARTS LOCATIONS (TOP VIEW)



PCB PARTS LOCATIONS (BOTTOM VIEW)



PROTON ELECTRONIC INDUSTRIAL CO.,LTD.

63, Sec. 1, San Ming Rd., Panchiao, Taipei Hsien,
Taiwan, R.O.C.

Tel:(02)9625135-40

Fax:(02)9547316

PROTON INTERNATIONAL CORPORATION

5630 Cerritos Avenue Cypress CA 90630
U.S.A.

Tel:(714)9521515

Fax:(714)9528585